

Fig. 1

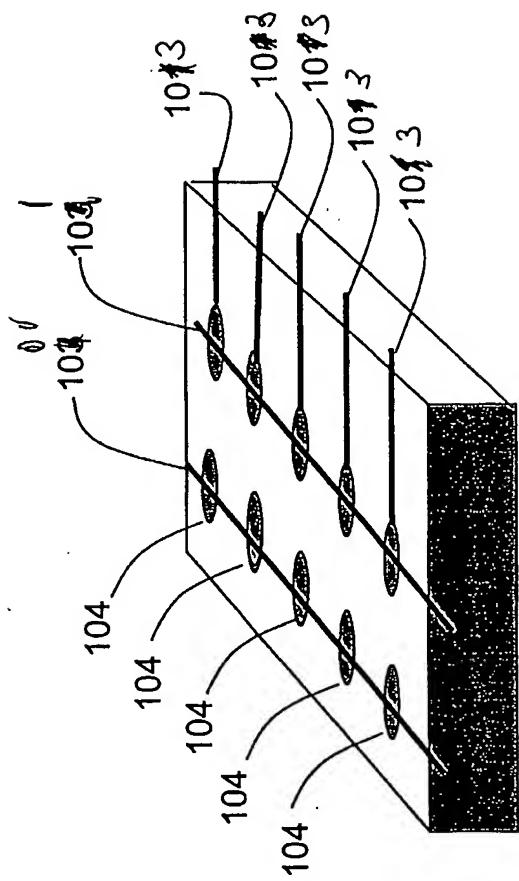


Fig. 2

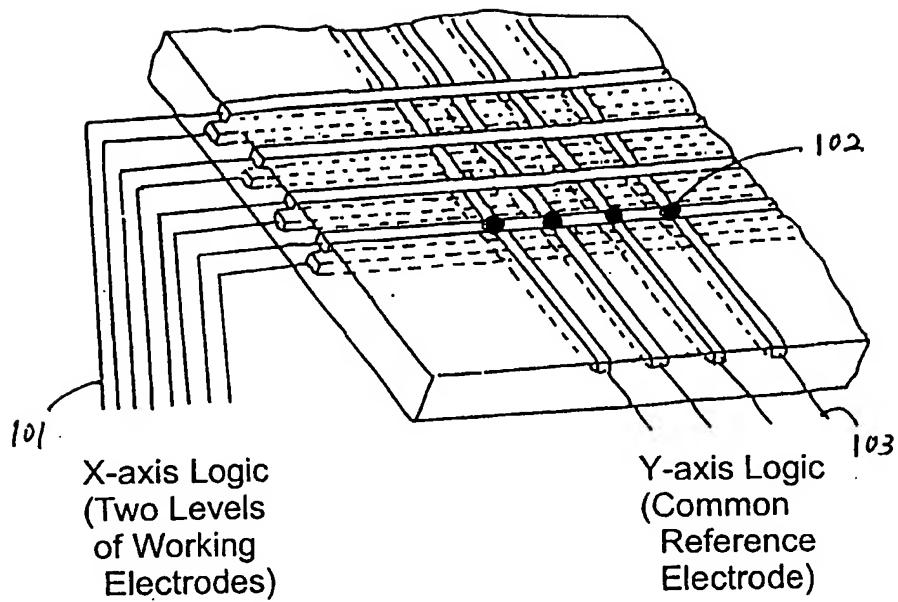


Fig. 3

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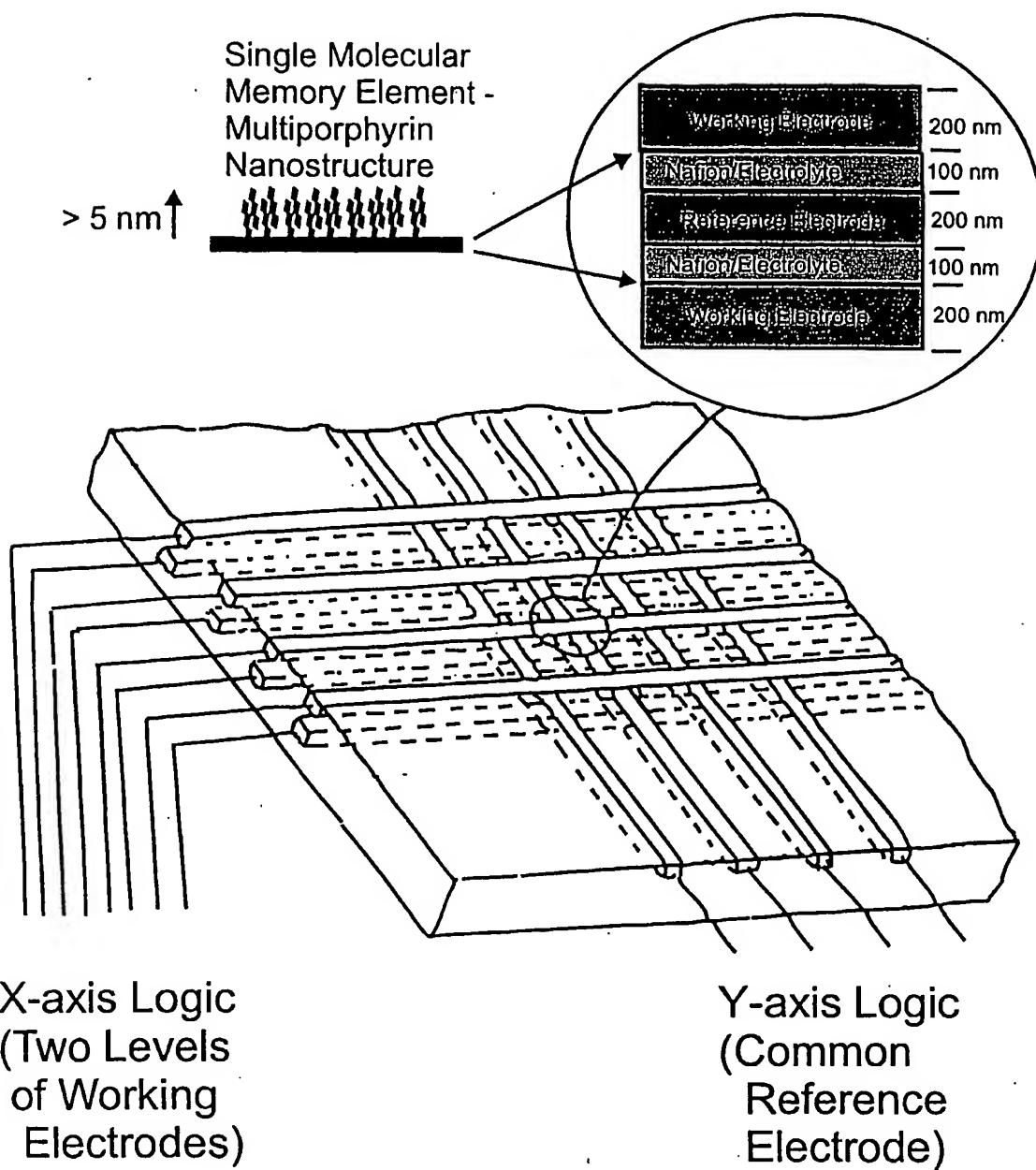


Fig. 4

10/019377

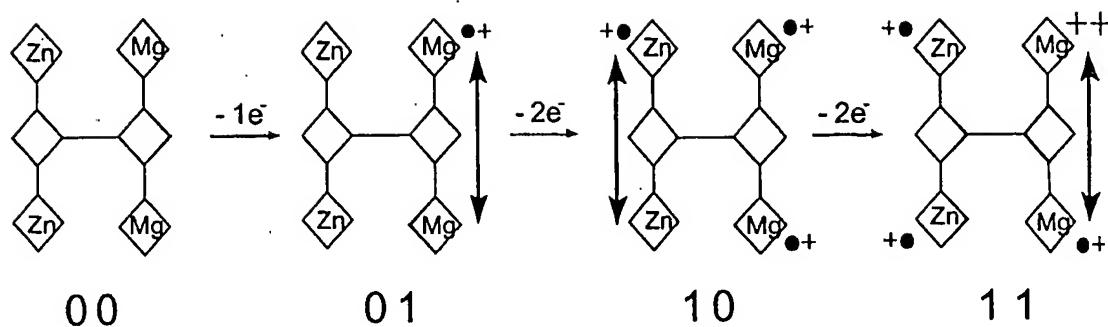
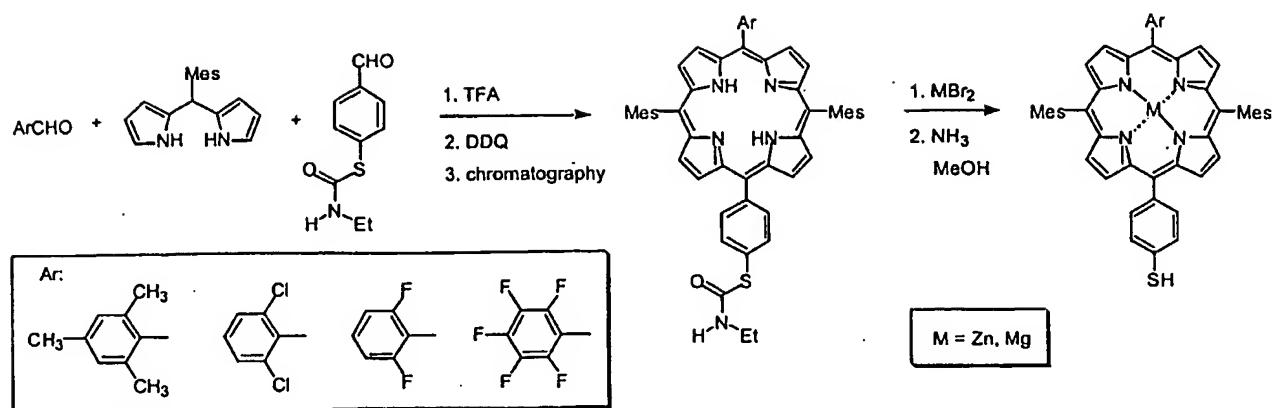


Fig. 5

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*Fig. 6*

10/019377

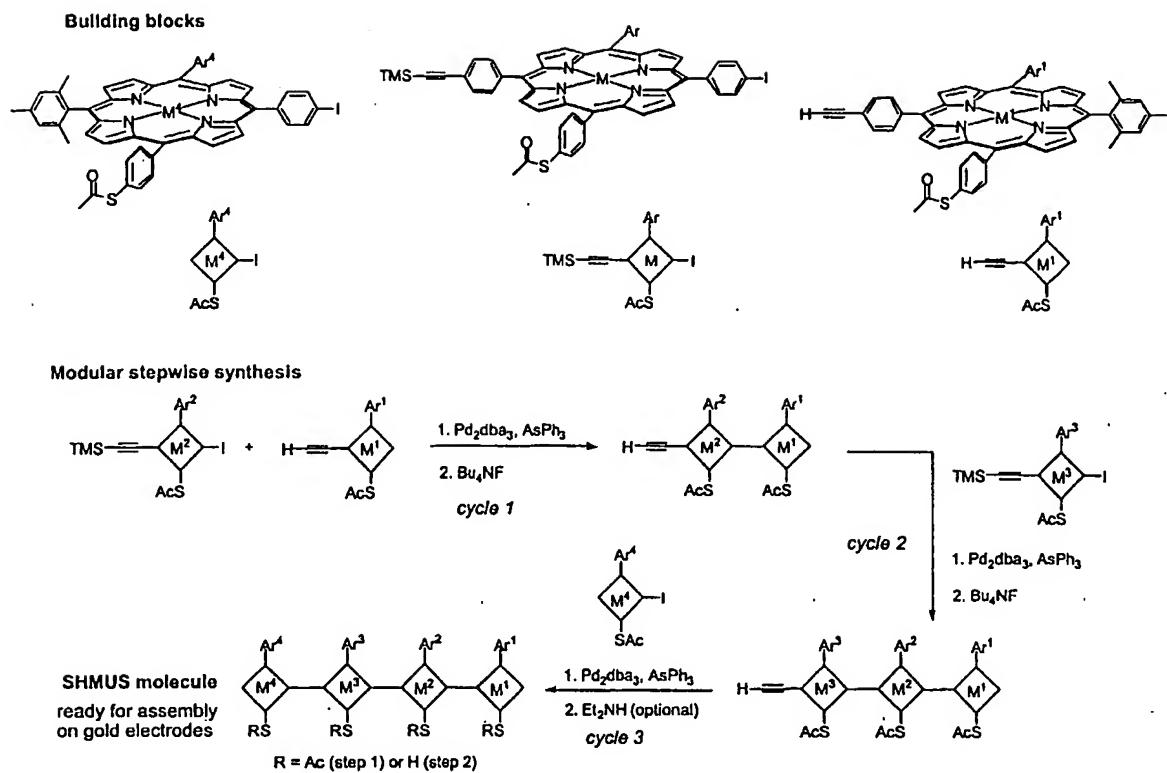
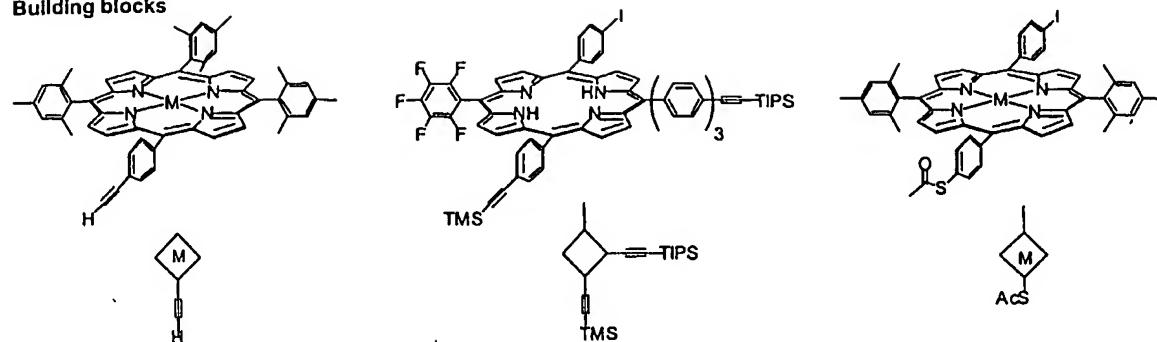
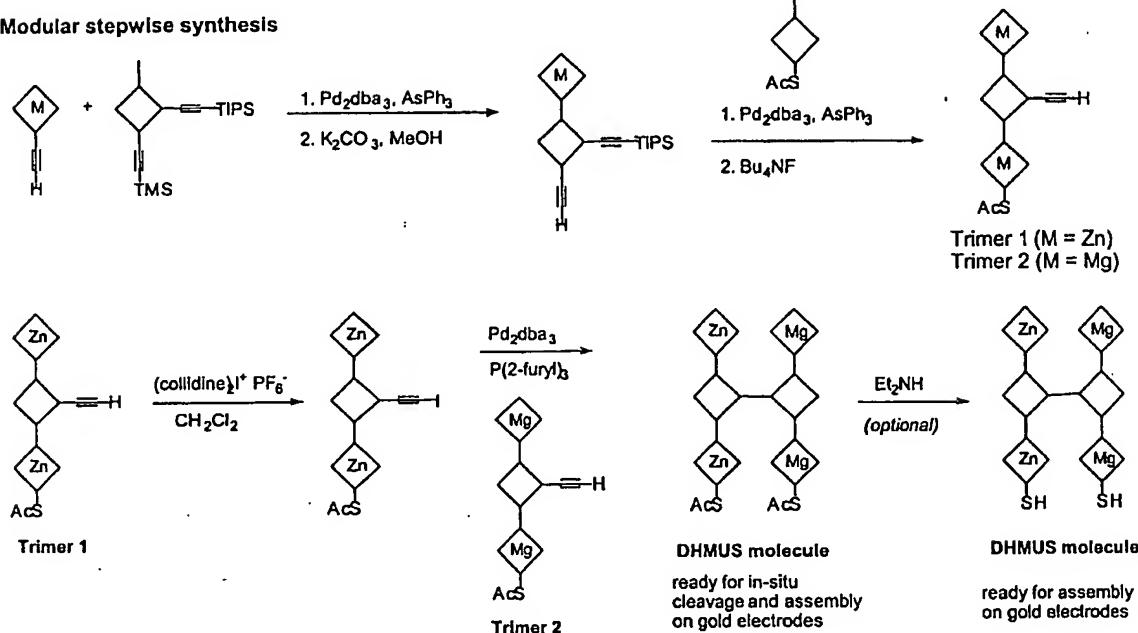


Fig. 7

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Building blocks**Modular stepwise synthesis****Fig. 8**

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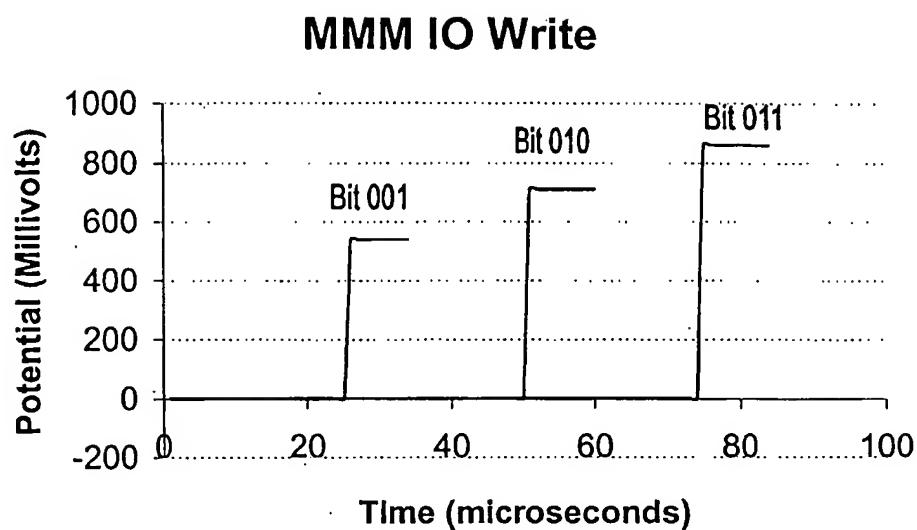


Fig. 9

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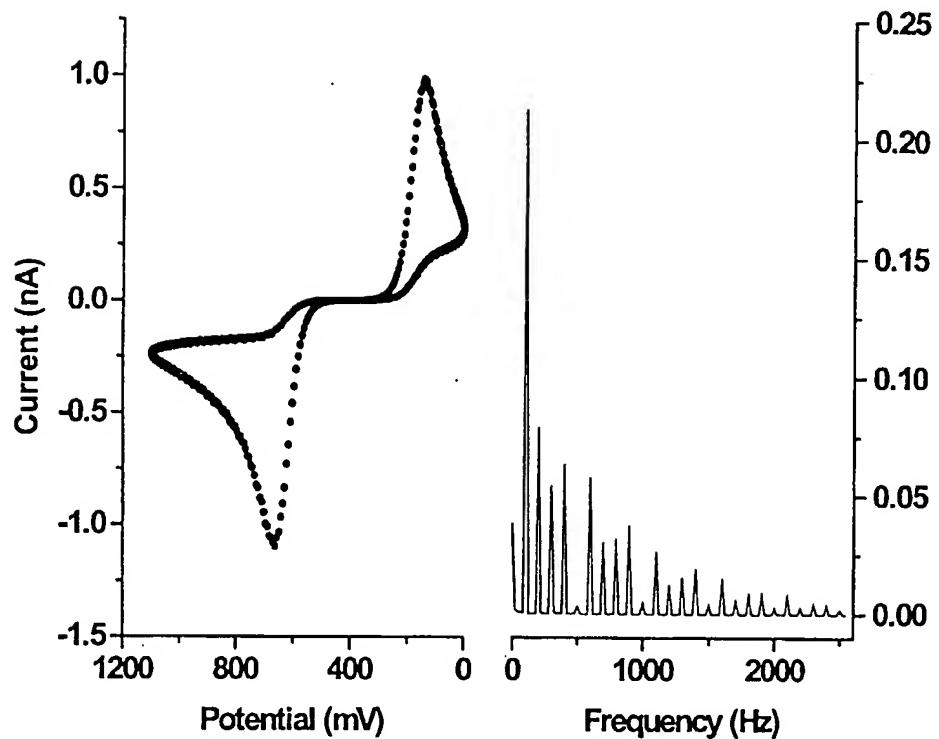


Fig. 10

10/019377

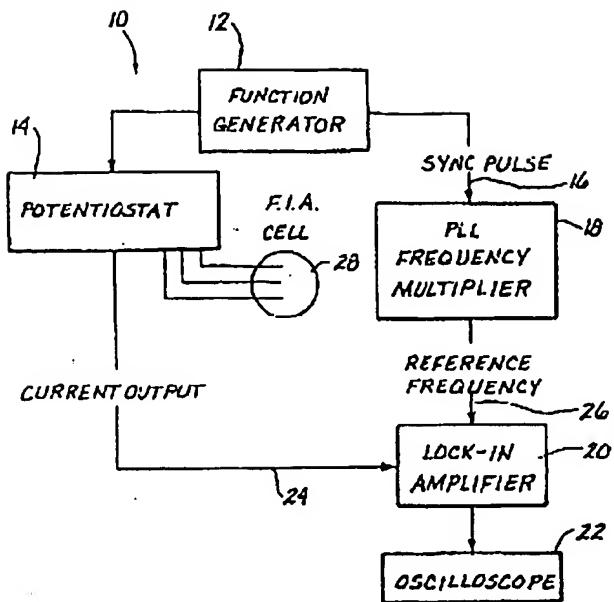


Fig. 11

10/019377

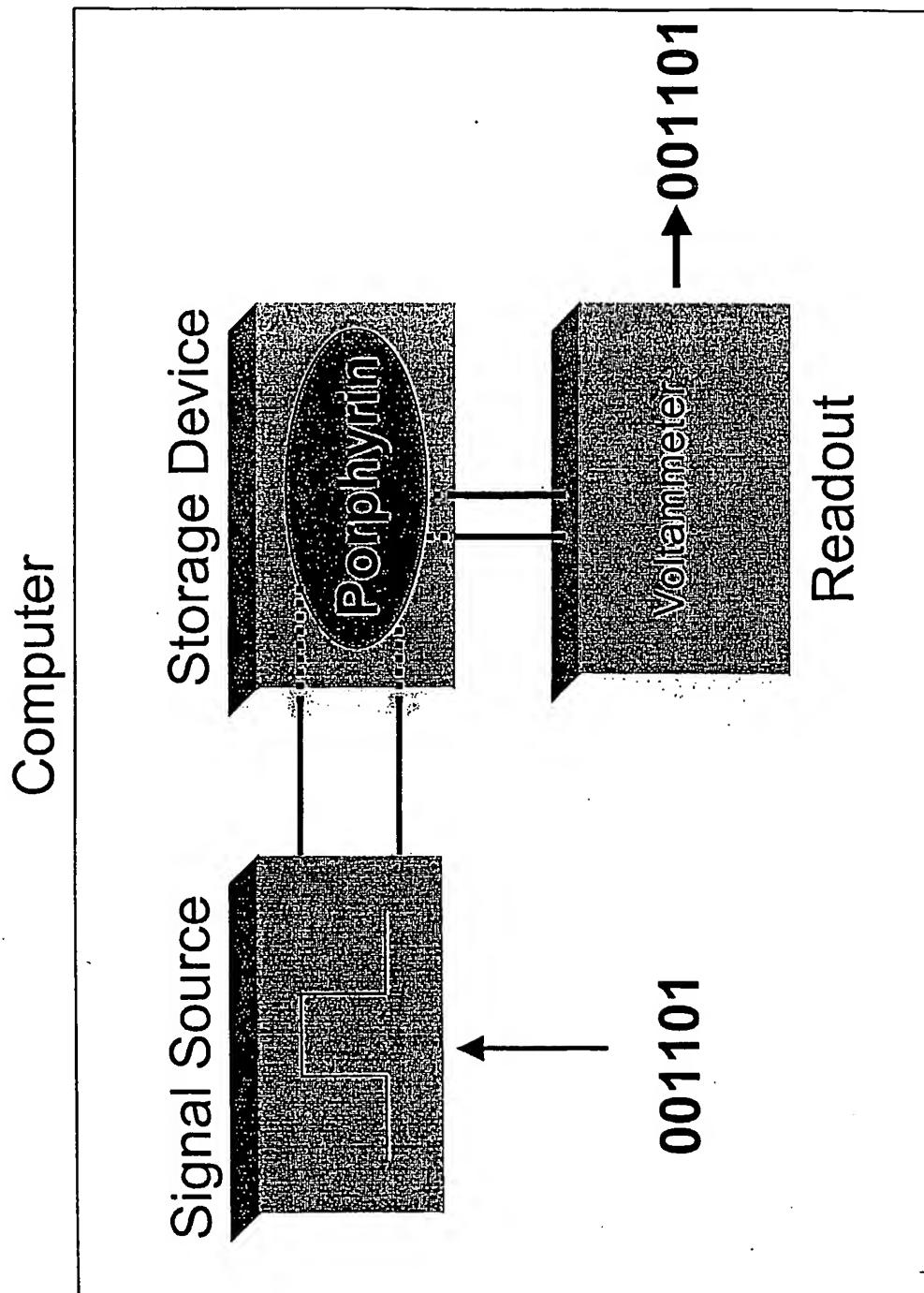


Fig. 12

10/019377

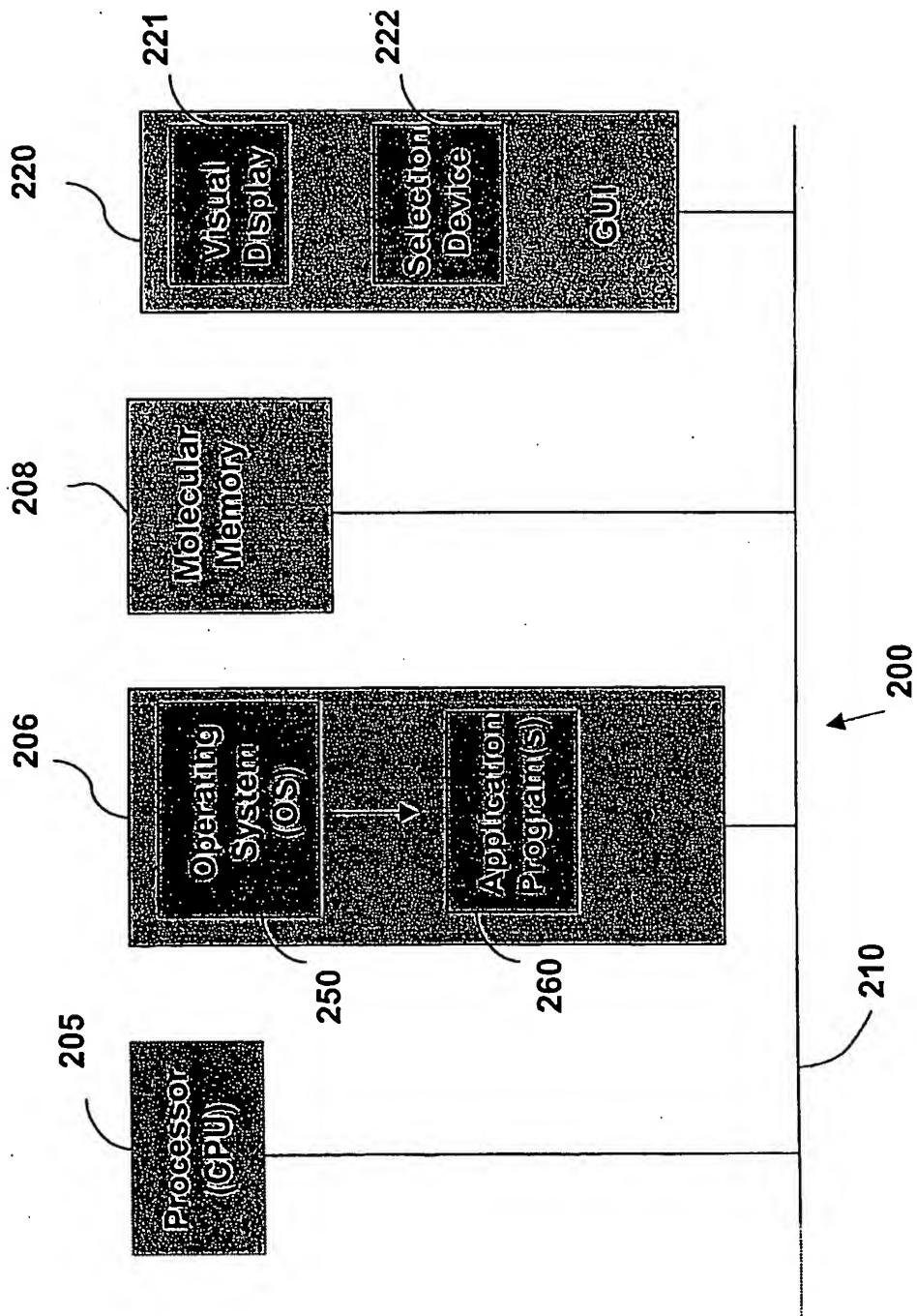


Fig. 13

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Scheme 1.

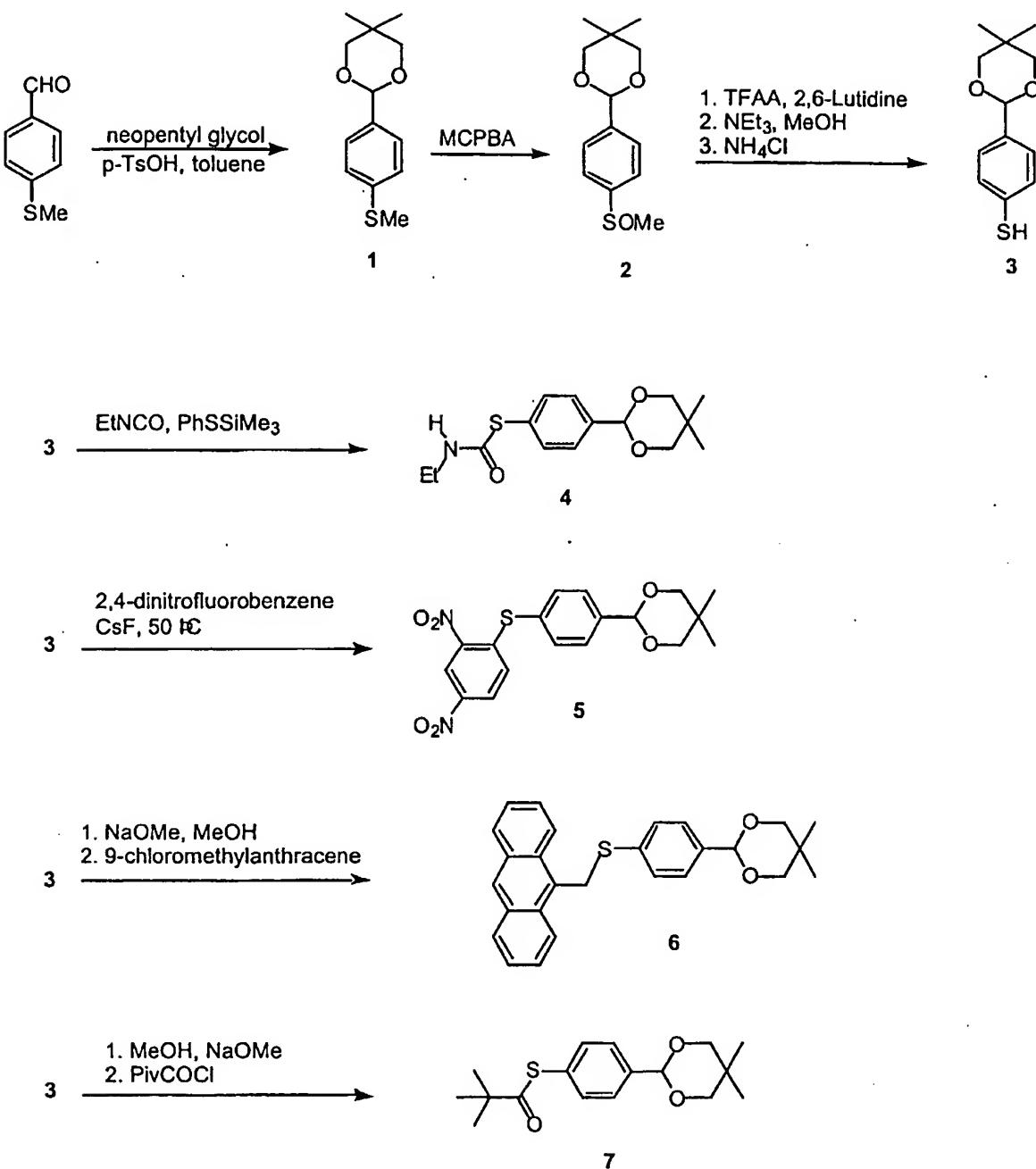


Fig. 14

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Scheme 2.

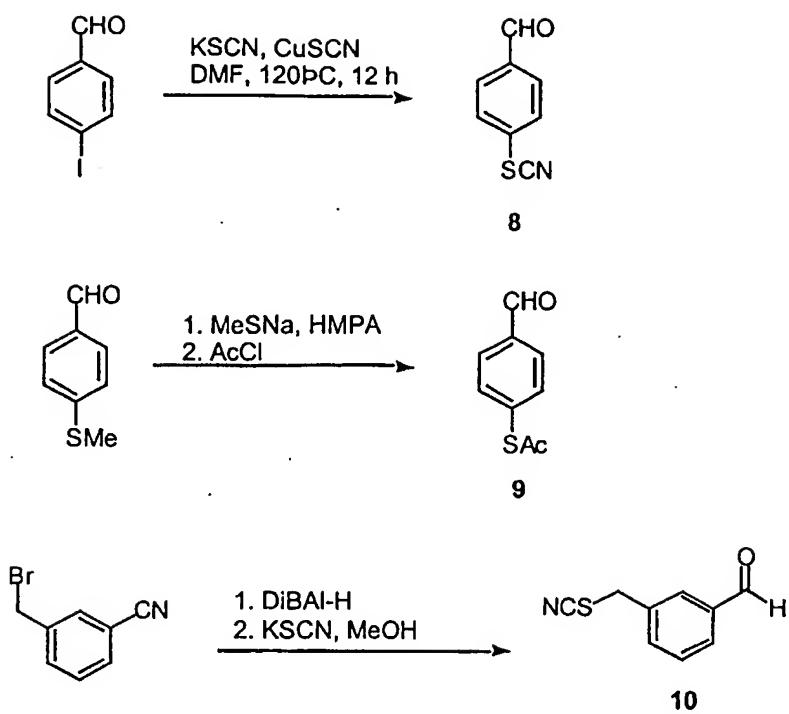
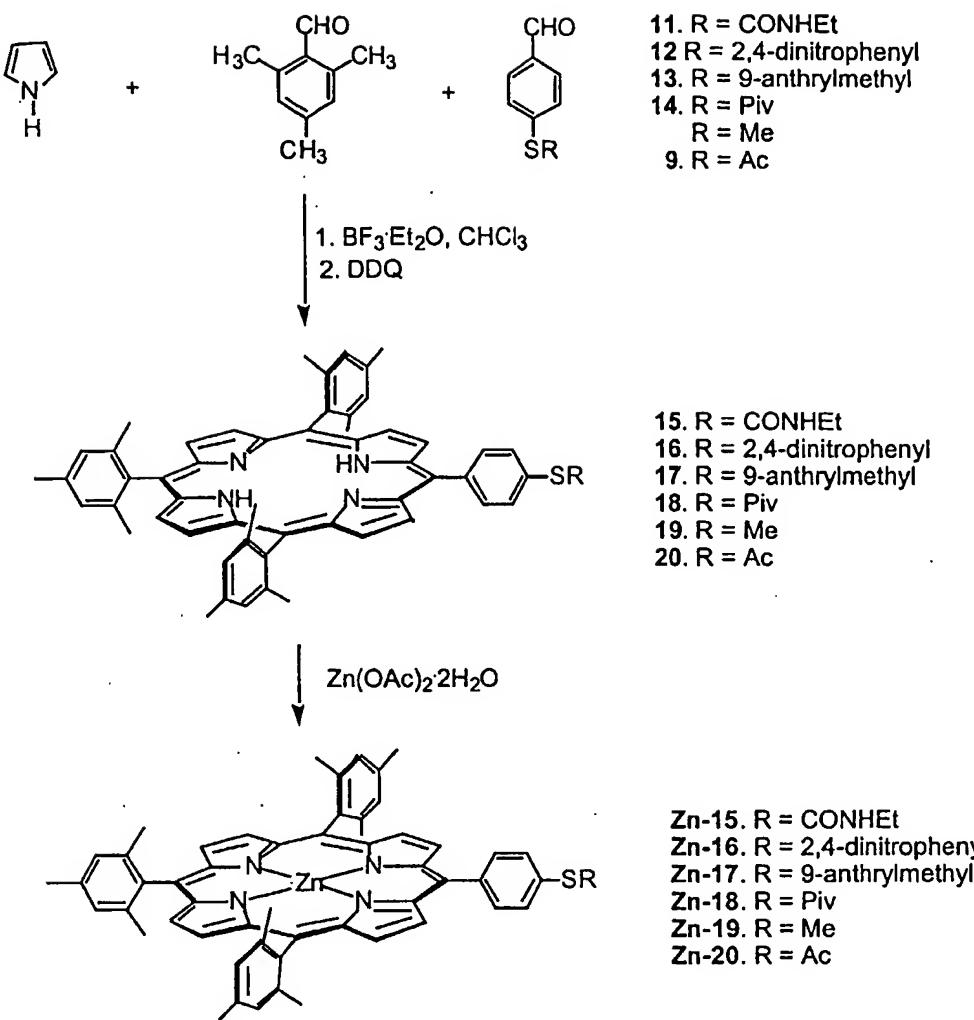


Fig. 15

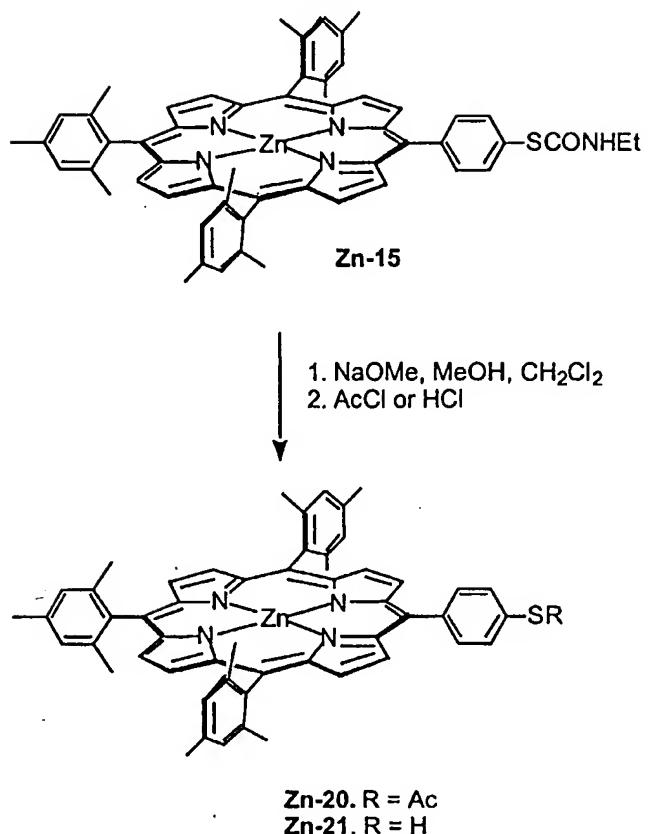
10/019377

Scheme 3.

**Fig. 16**

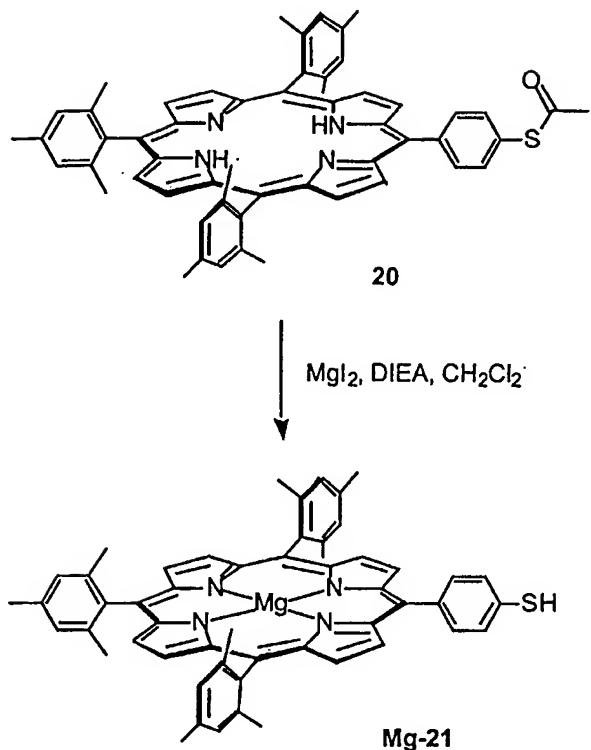
10/019377

Scheme 4.

*Fig. 17*

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Scheme 5.

*Fig. 18*

10/019377

Scheme 6.

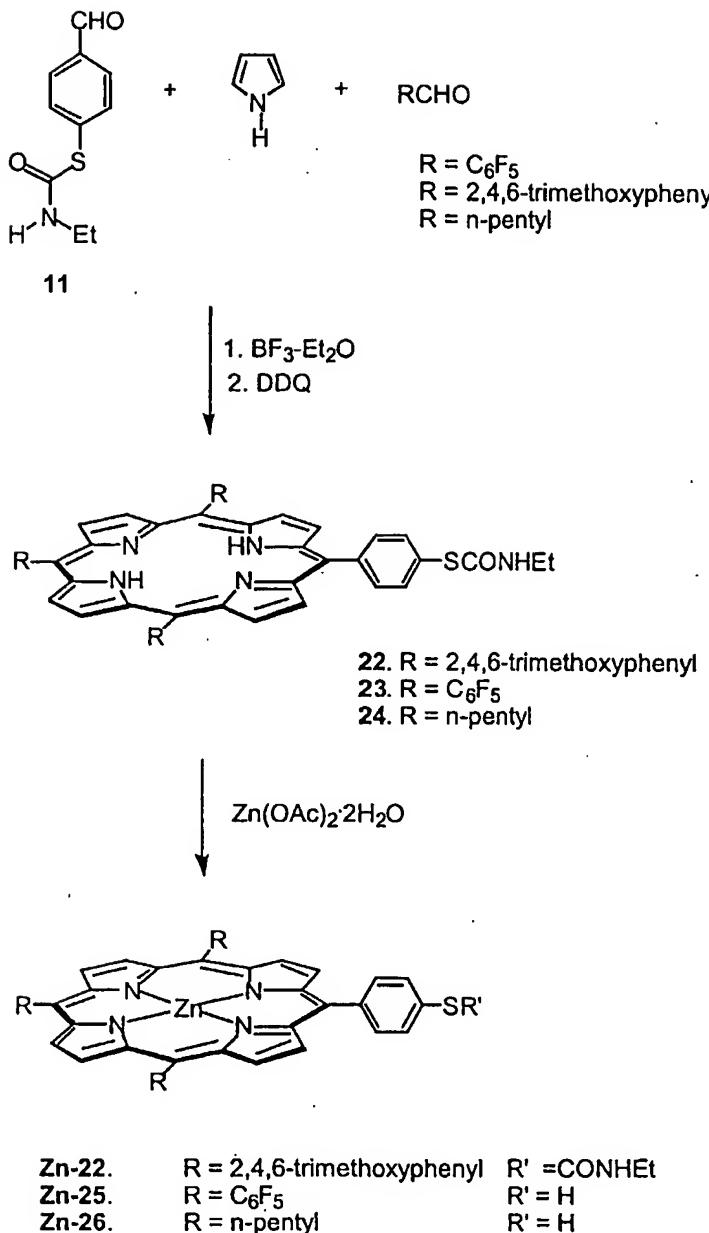
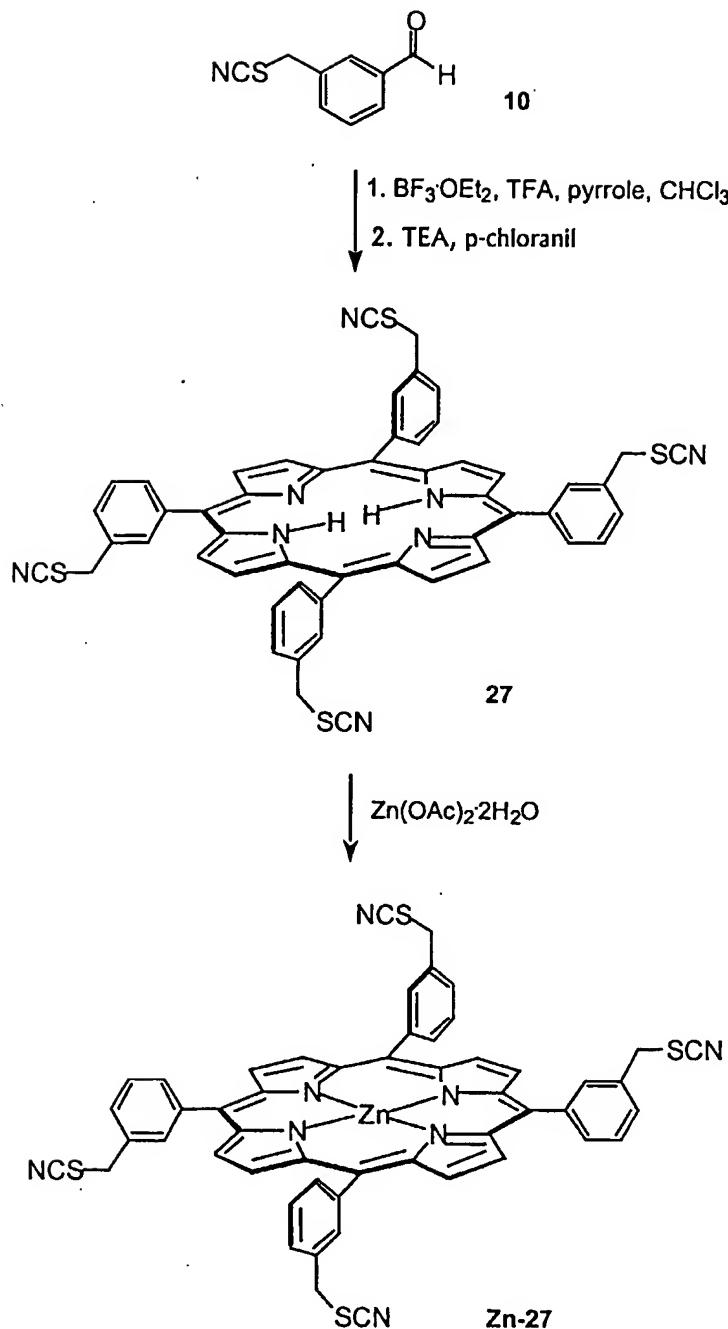


Fig. 19

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Scheme 7.

**Fig. 20**

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Scheme 8.

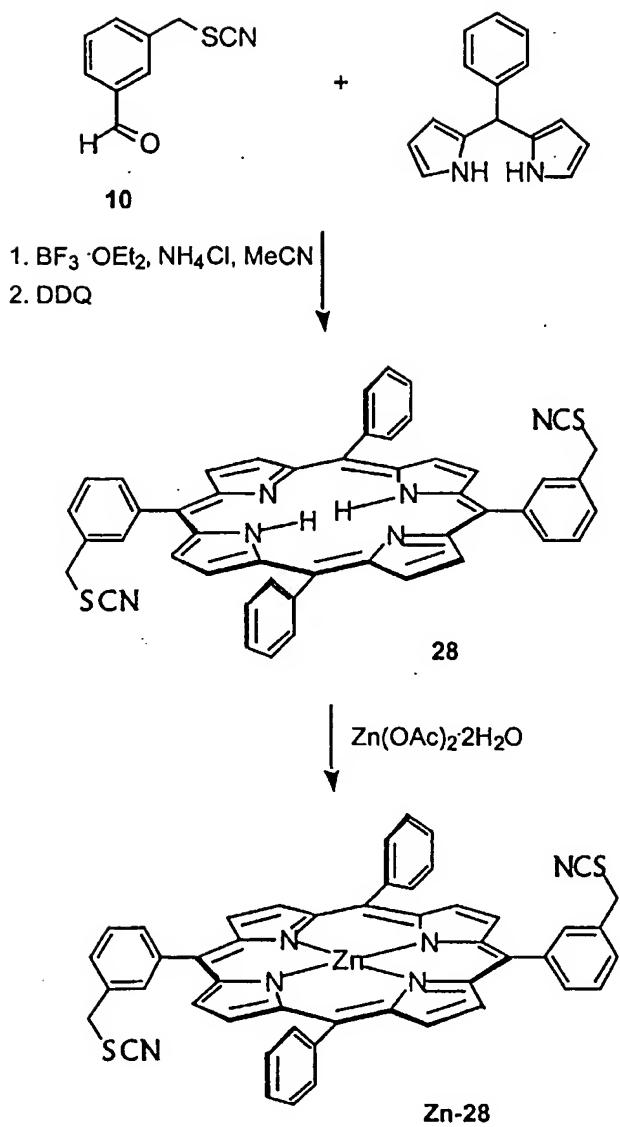
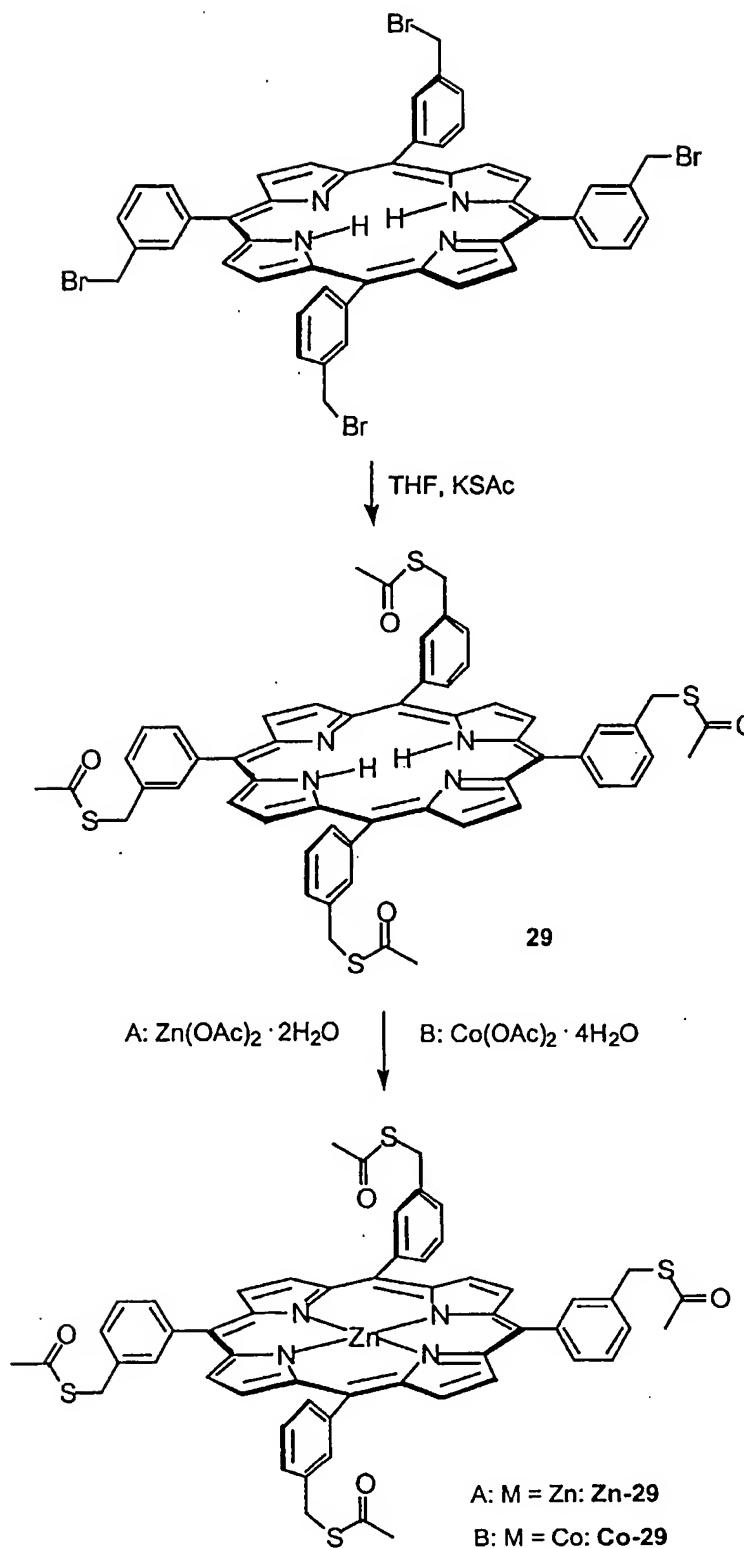


Fig. 21

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Scheme 9.

*Fig. 22*

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WRITING BITS on Porphyrin Monolayer

Thiolated TMP Porphyrin on 75 um Gold Band Electrode

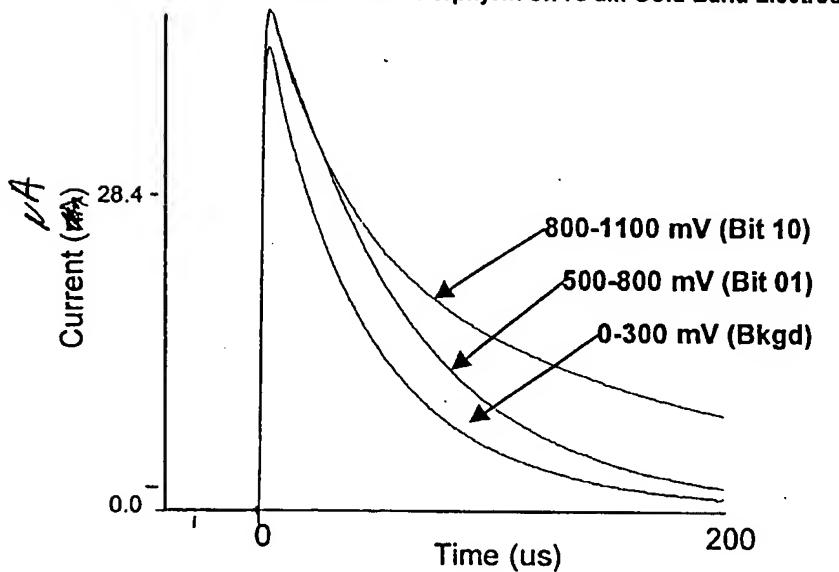


Fig. 23

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Background-Subtracted
"READ" Current

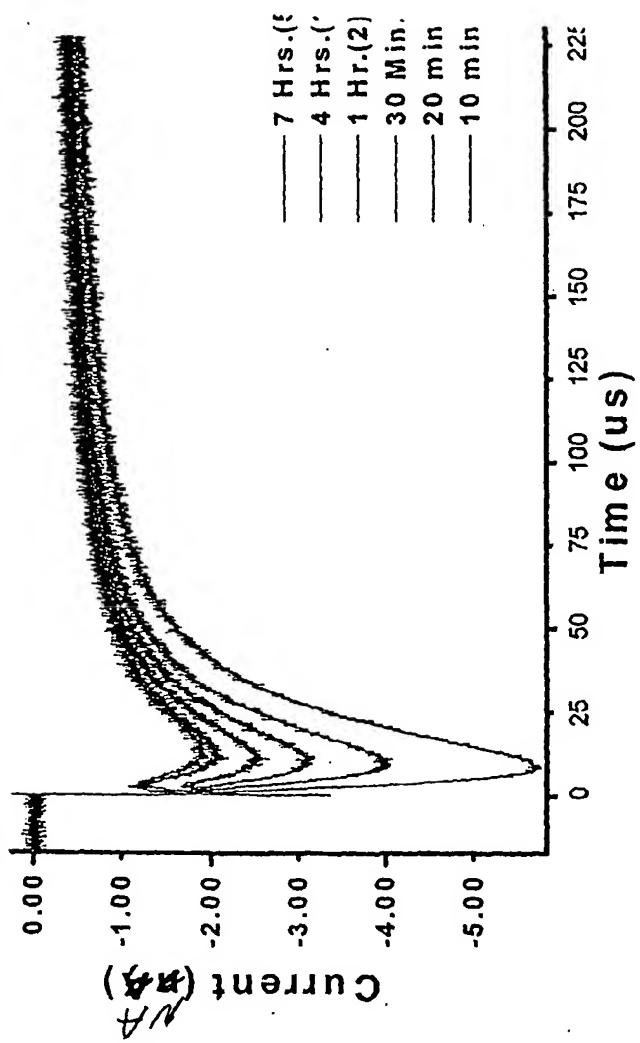
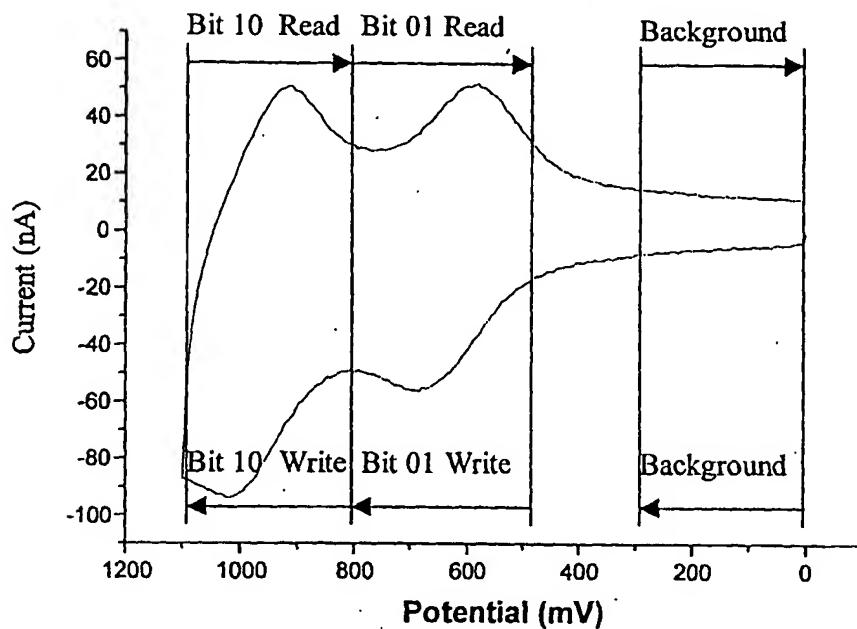
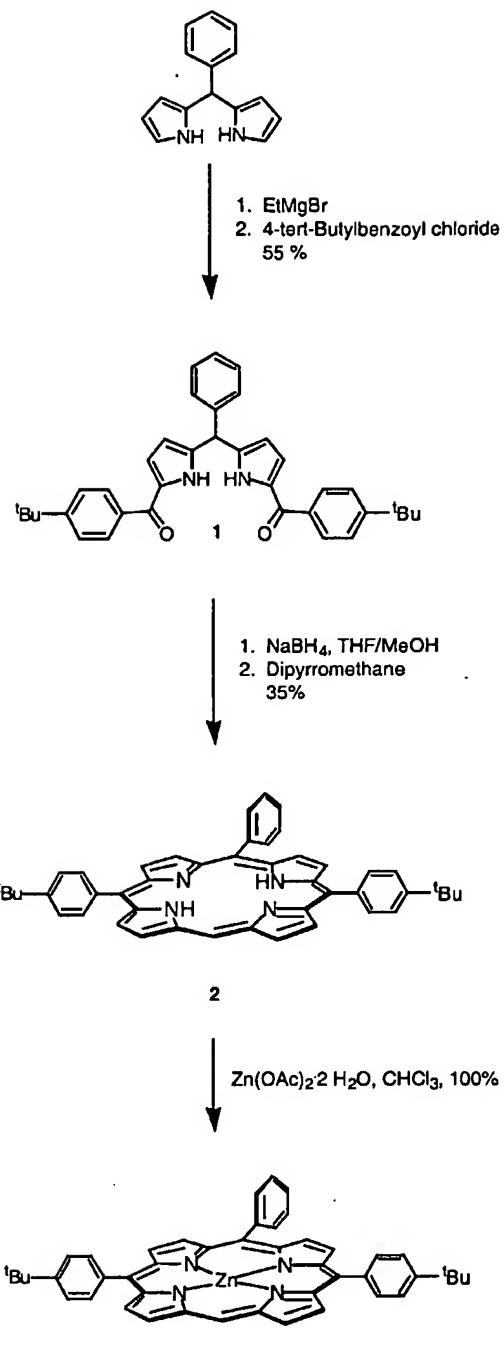


Fig. 24

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Read/Writ of a Monomeric Porphyrin**Fig. 25**

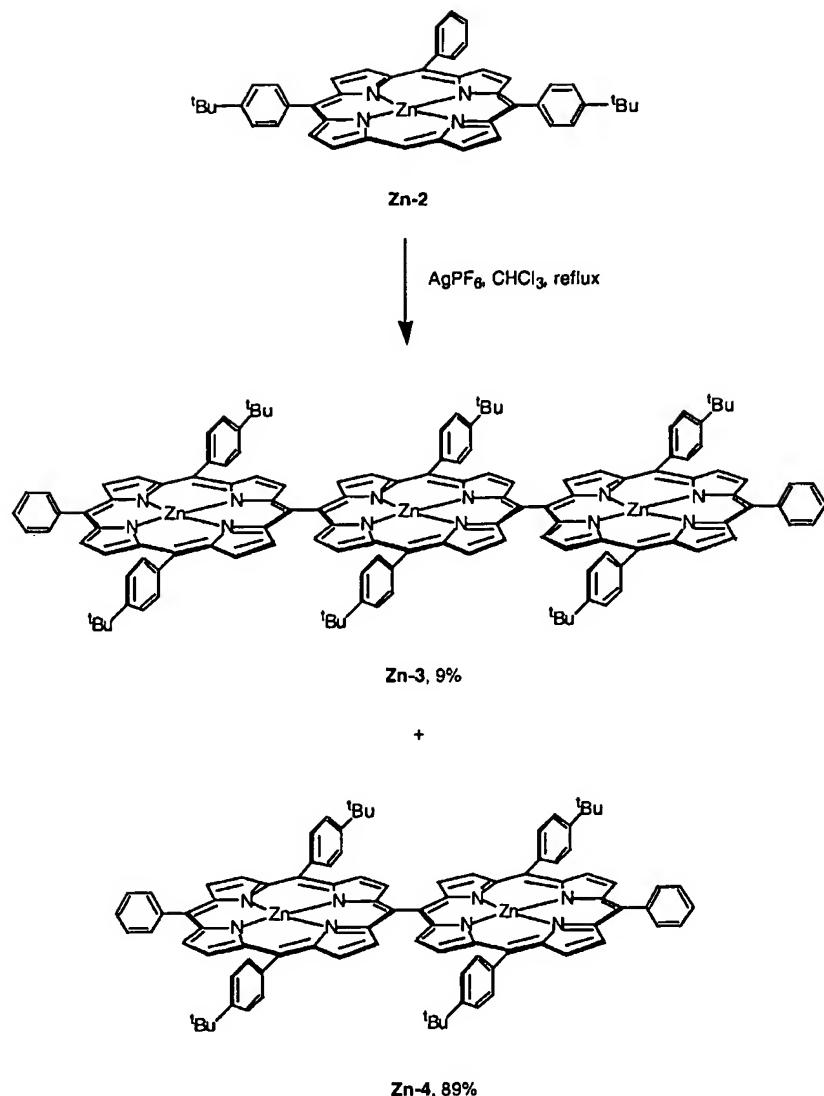
10/019377



Scheme 1

Fig. 26

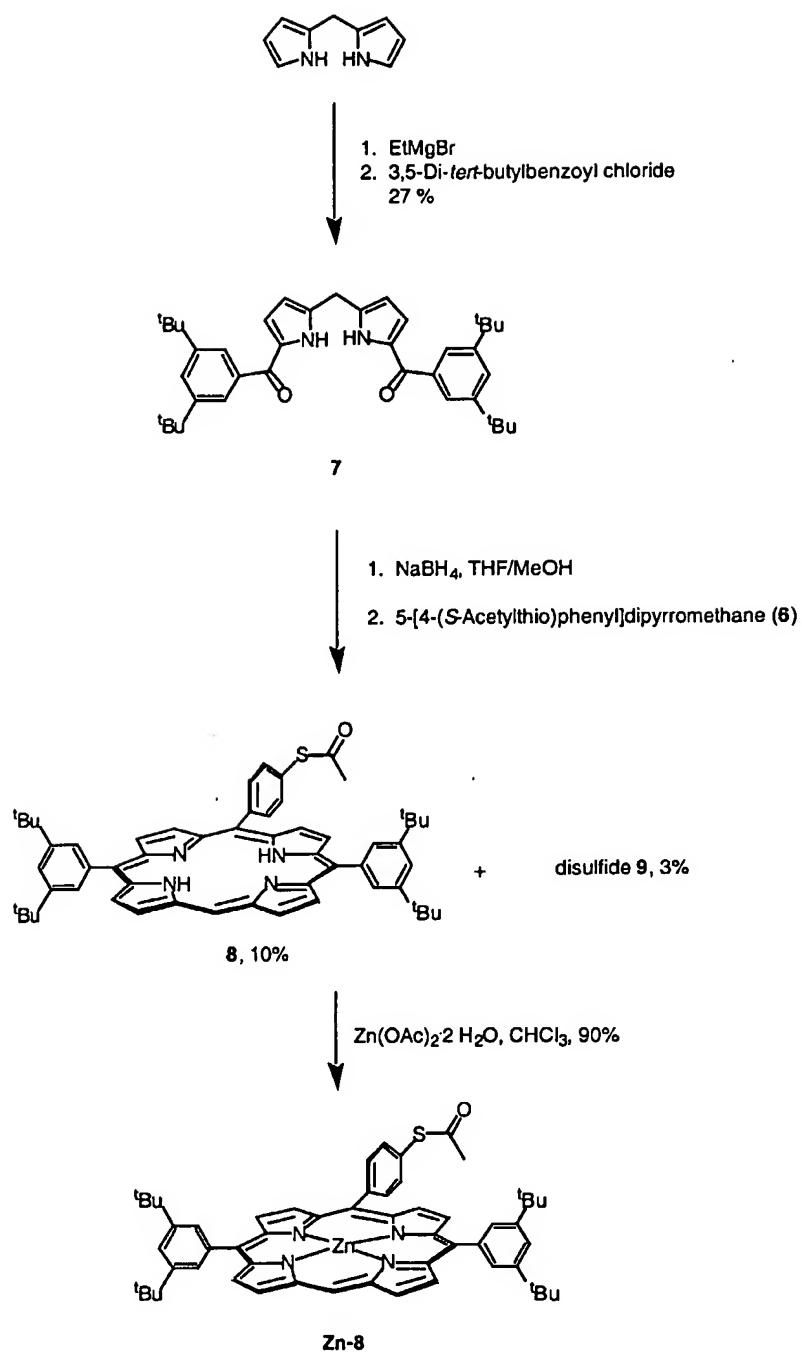
10/019377



Scheme 2

Fig. 27

10/019377



Scheme 3

Fig. 28

10/019377

Equation 1

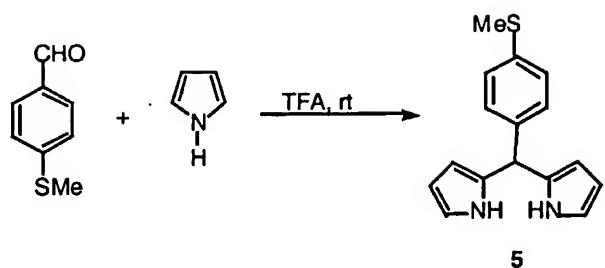


Fig. 29

Equation 2

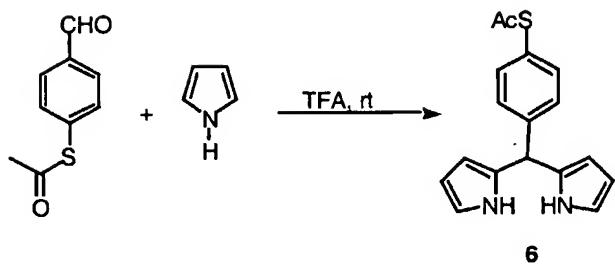
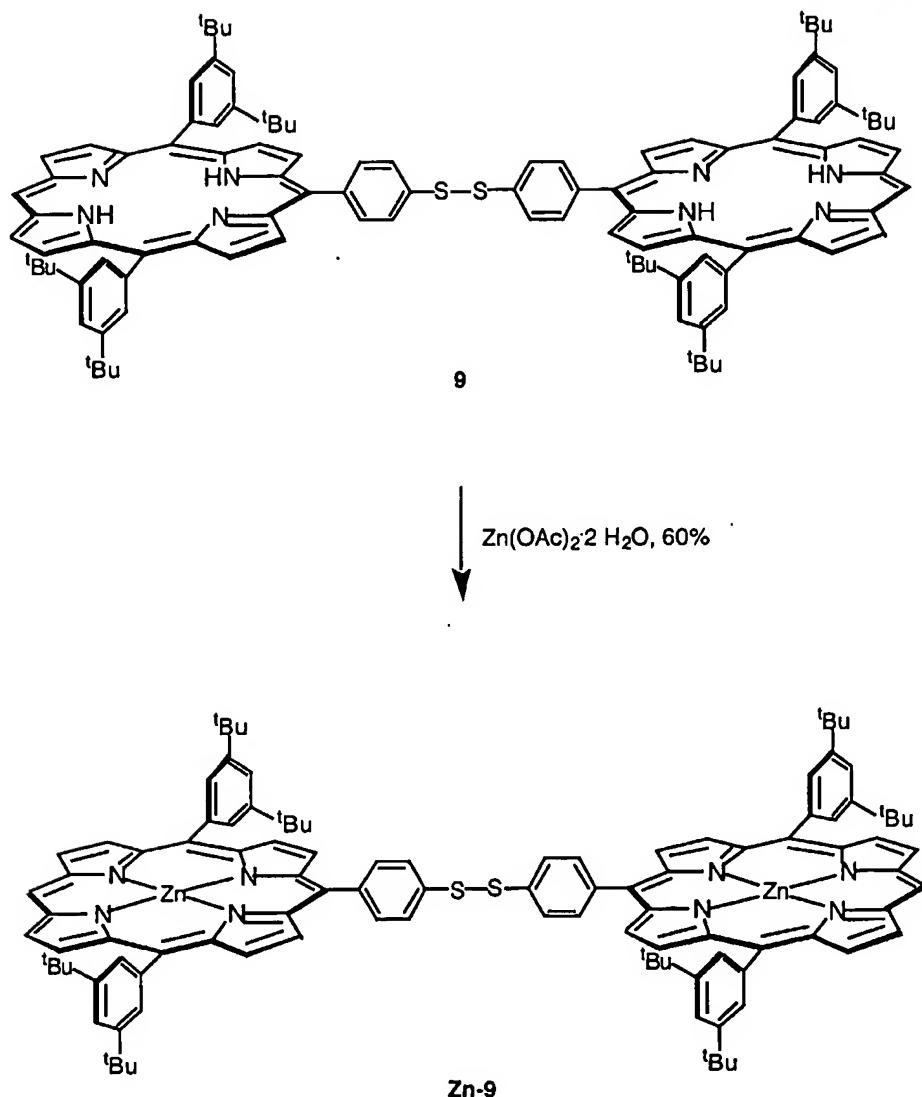


Fig. 30

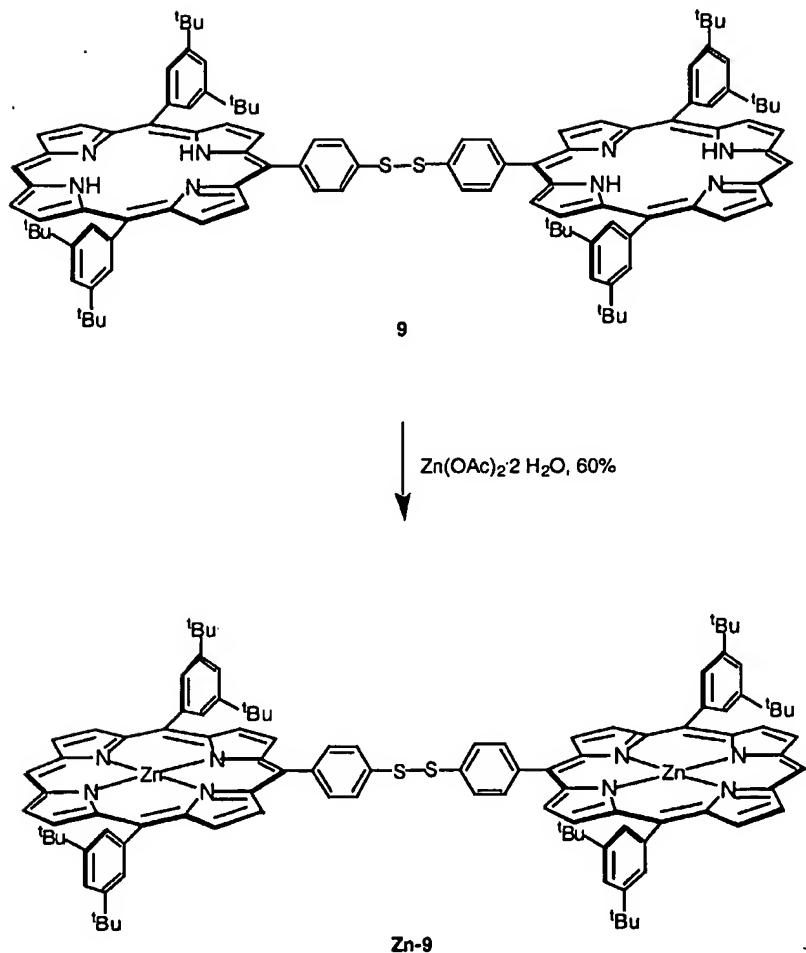
10/019377



Scheme 4

Fig. 31

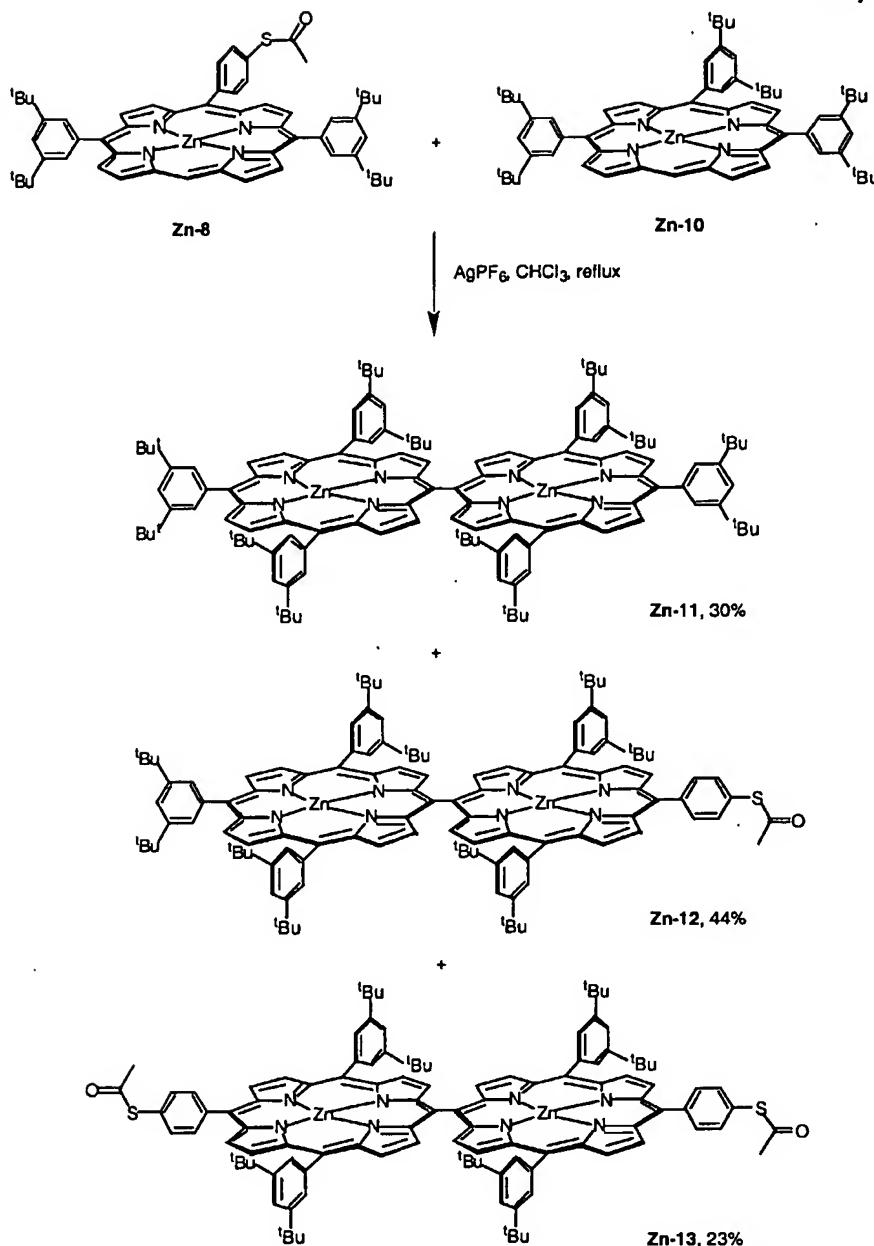
10/019377



Scheme 5

Fig. 32

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Scheme 6

Fig. 33

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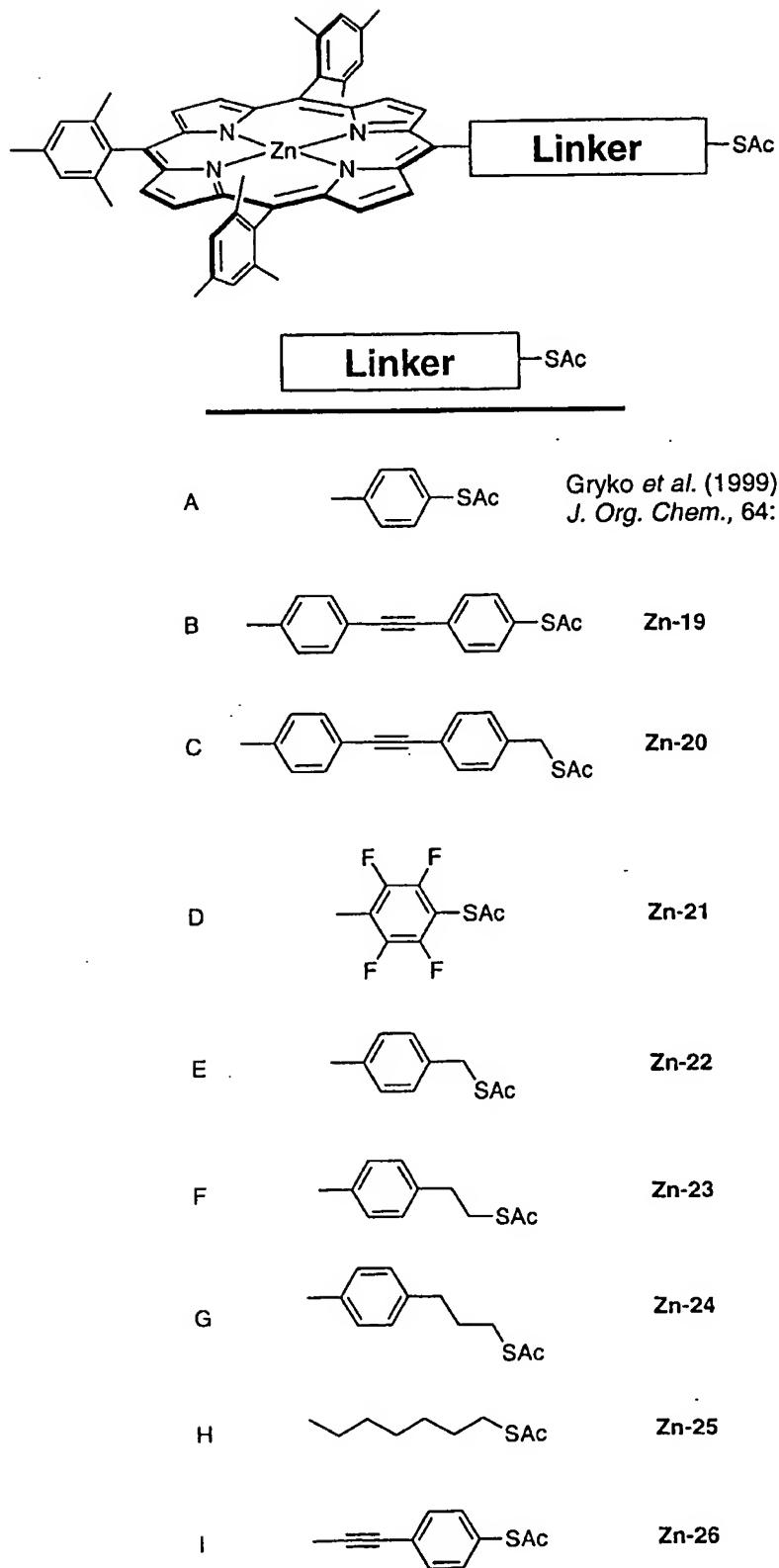


Fig. 34

10/019377

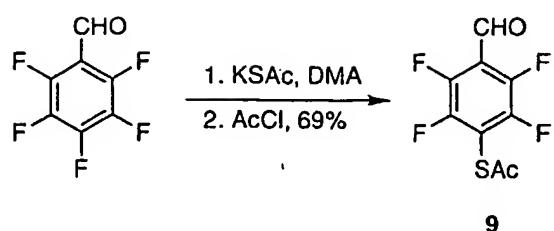


Fig. 35

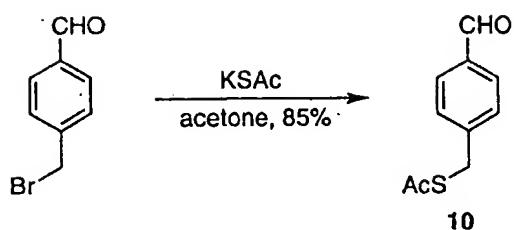


Fig. 36

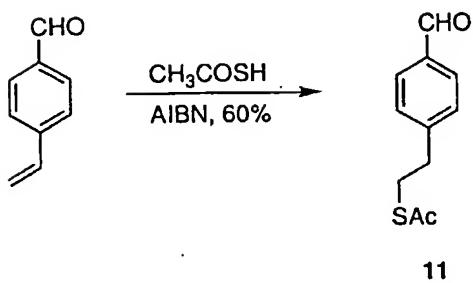


Fig. 37

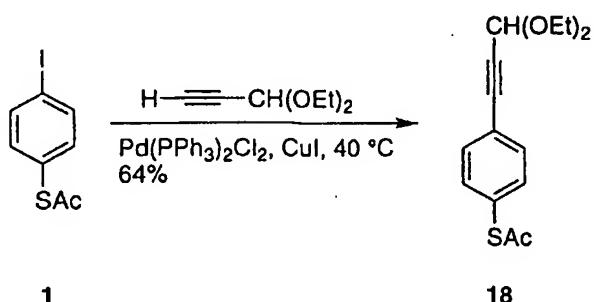


Fig. 38

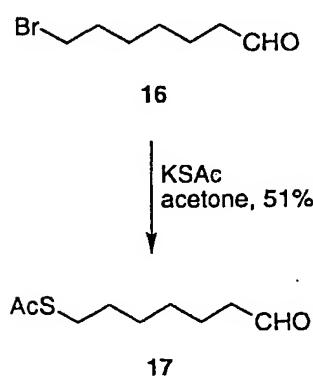


Fig. 39

10/019377

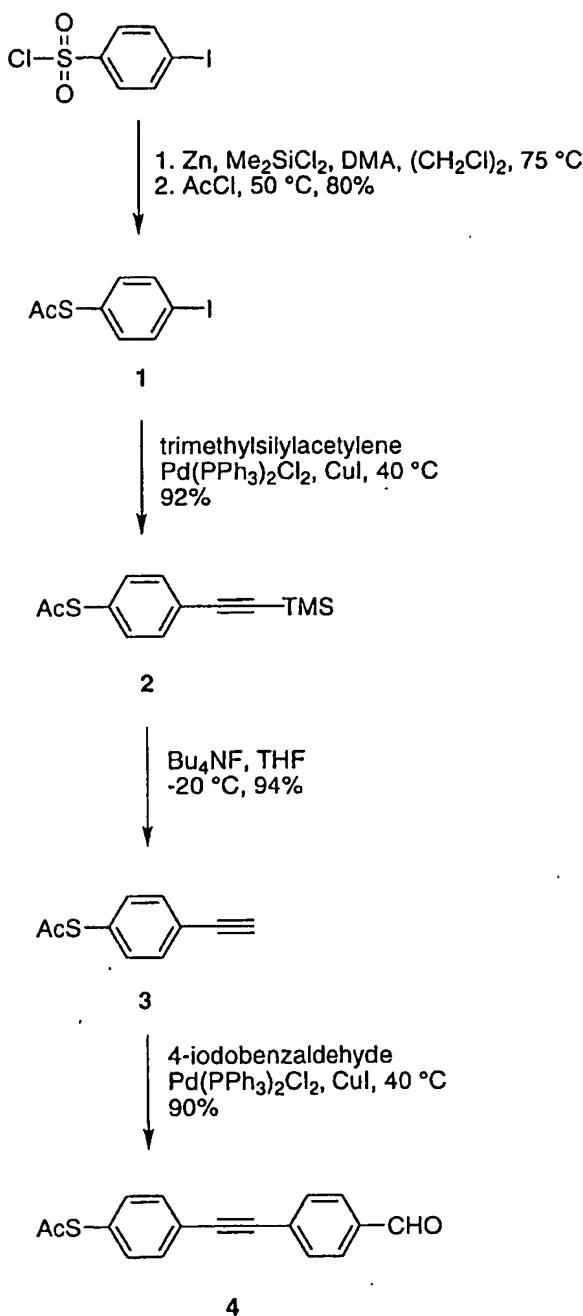


Fig. 40

10/019377

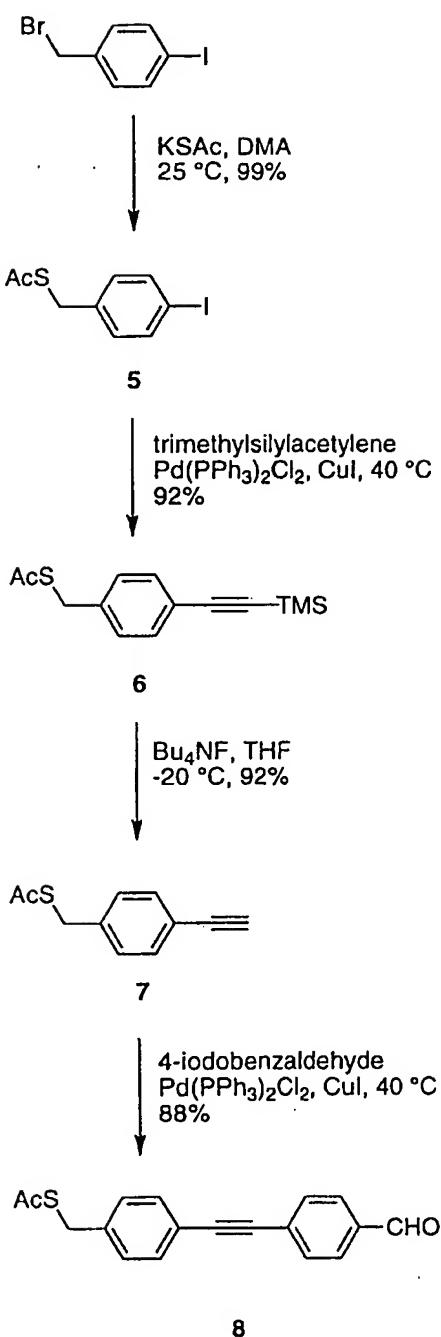


Fig. 41

10/019377

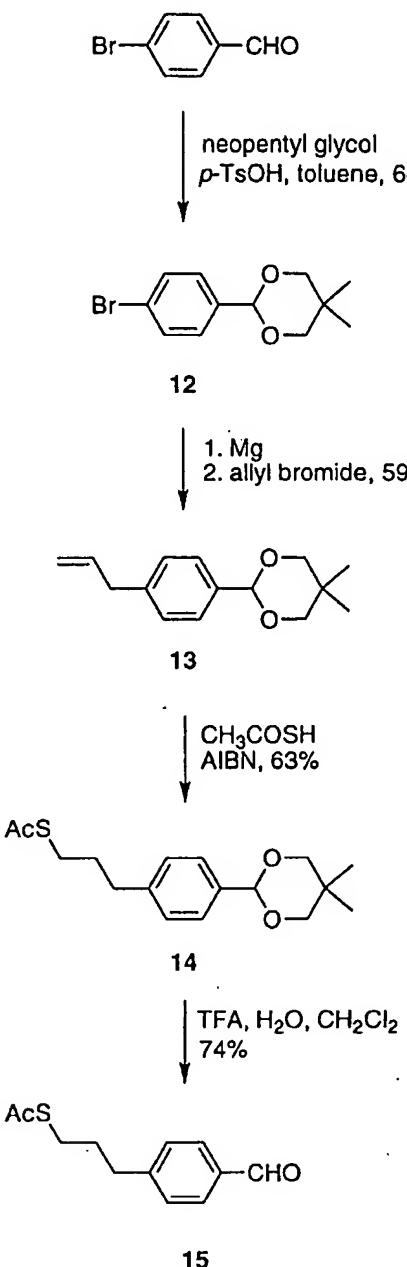
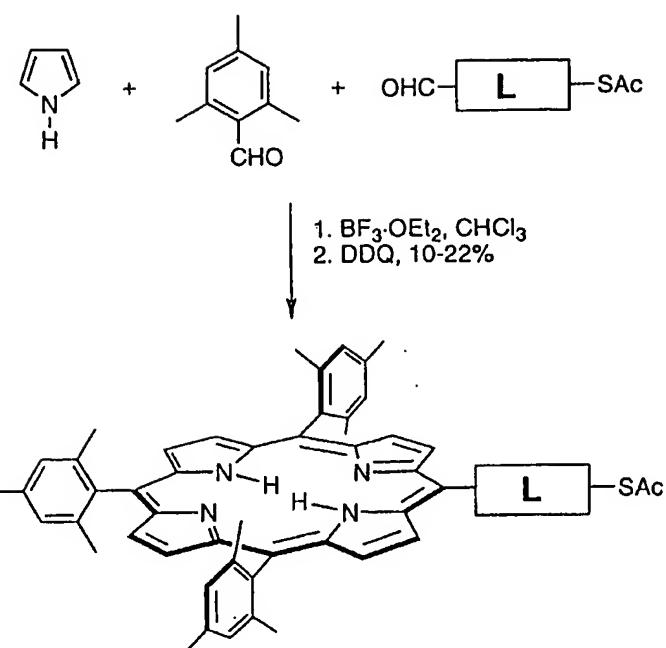
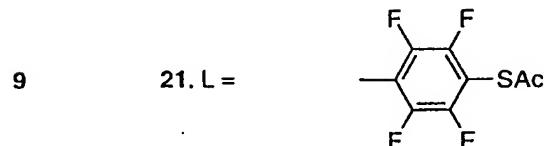
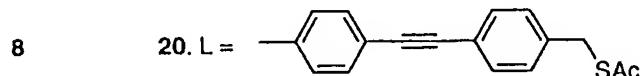
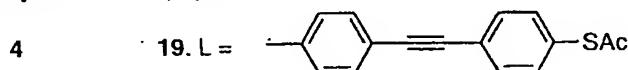


Fig. 42

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Aldehydes Porphyrins



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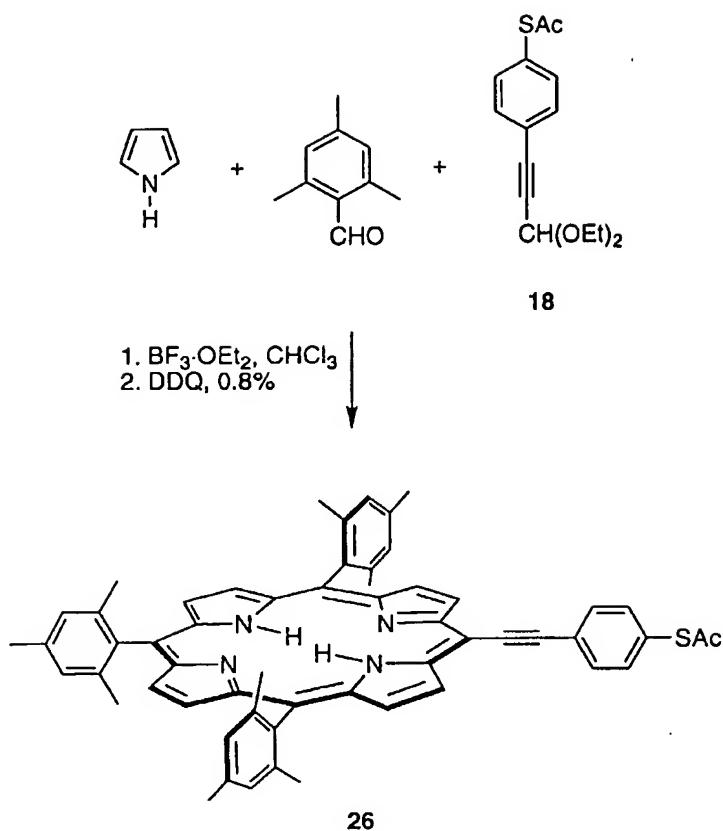
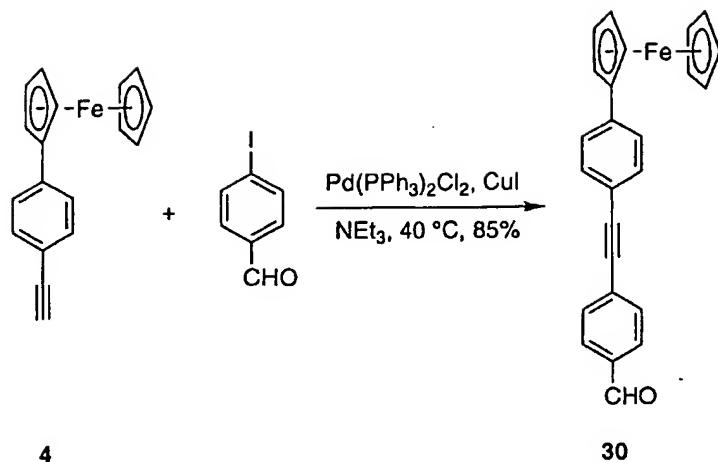


Fig. 44

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Equation 1*Fig. 45*

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Equation 2

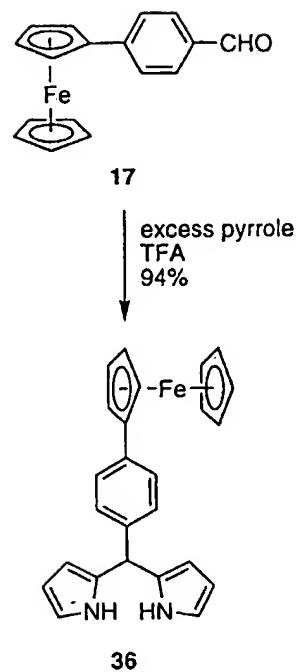


Fig. 46

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Equation 3

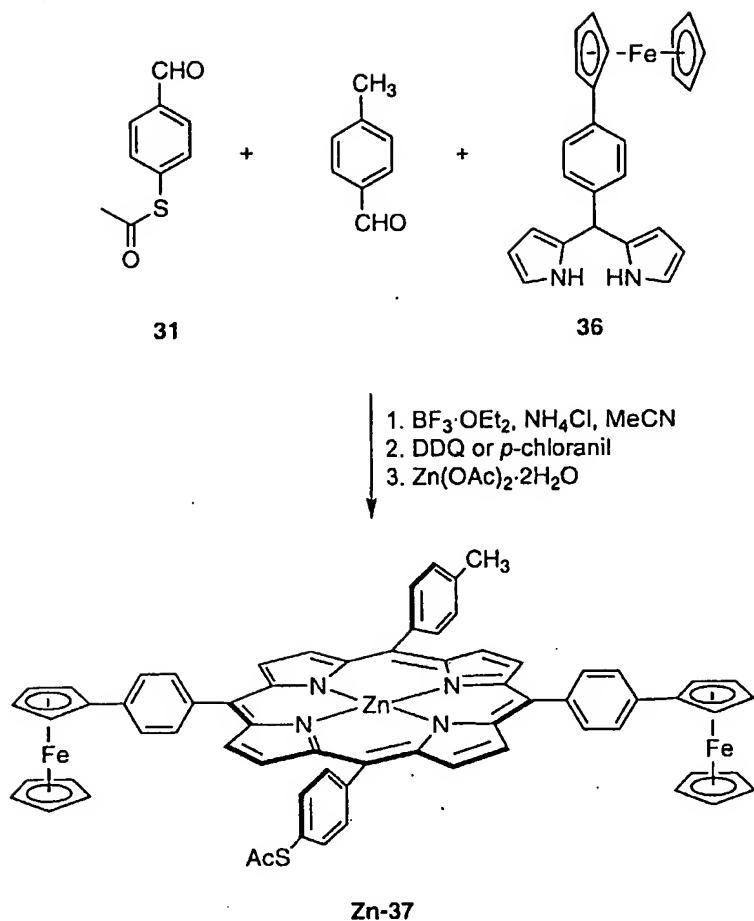


Fig. 47

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Scheme 1

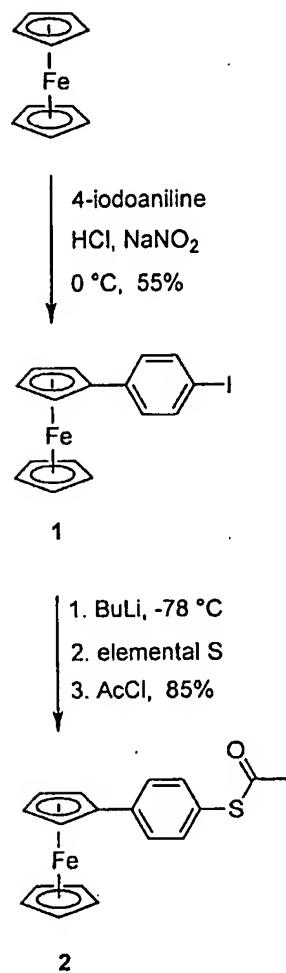


Fig. 48

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Scheme 2

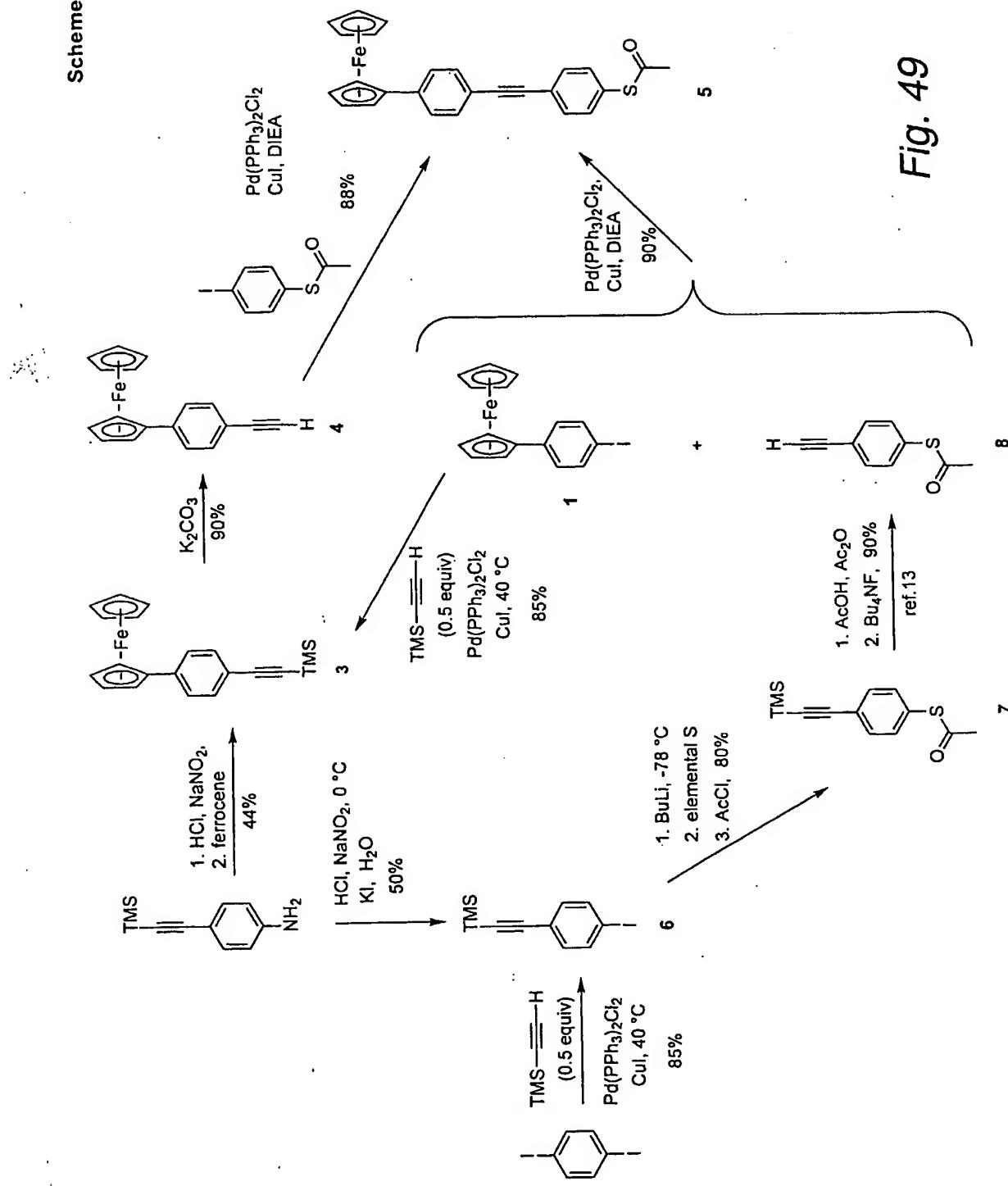


Fig. 49

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Scheme 3

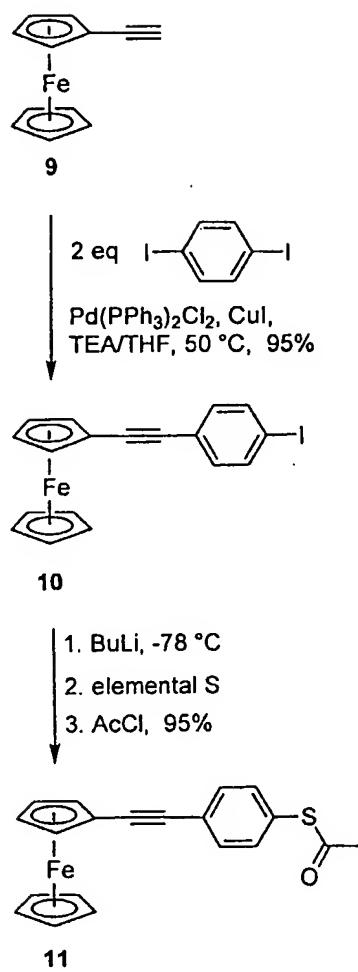
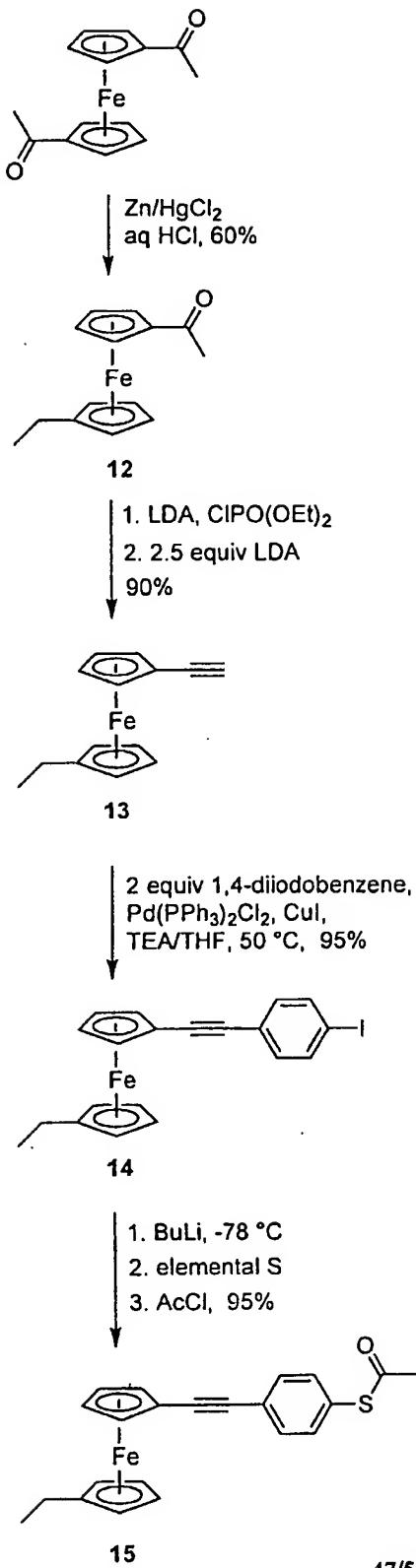


Fig. 50

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Scheme 4



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Scheme 5

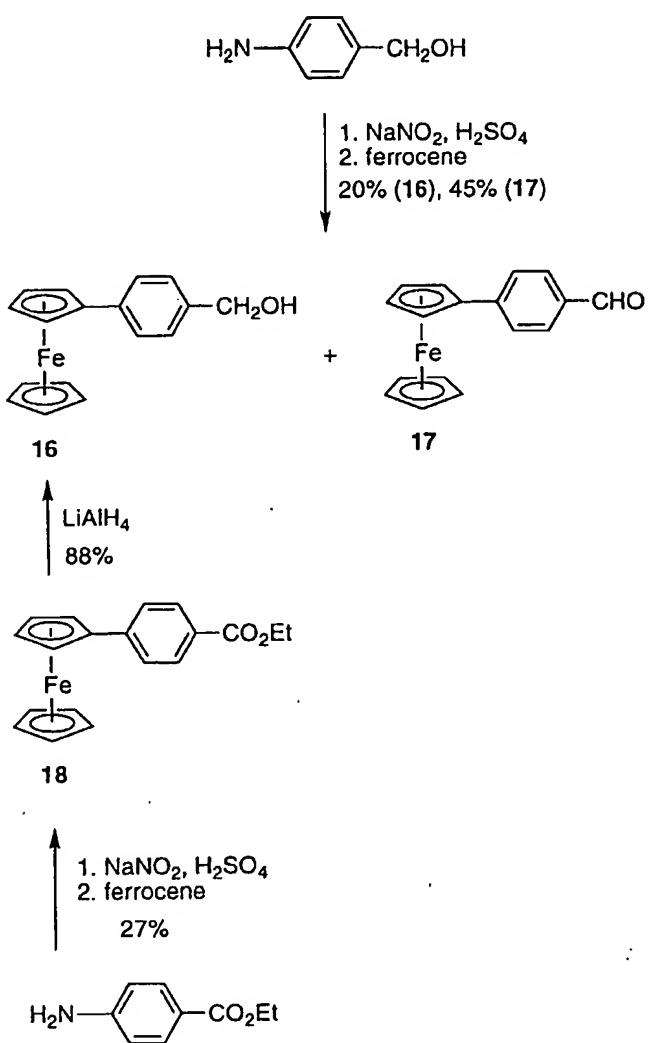


Fig. 52

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Scheme 6

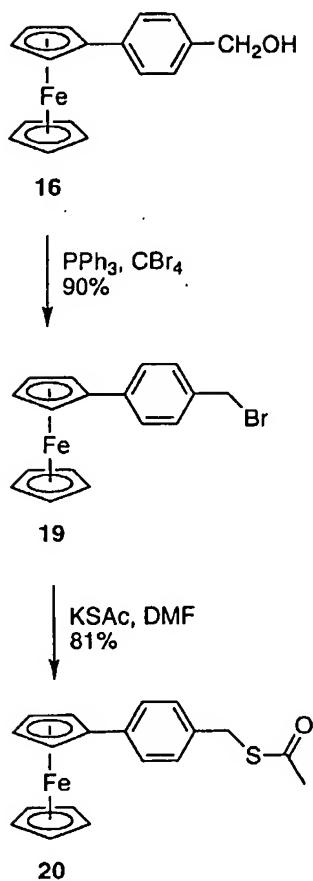


Fig. 53

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Scheme 7

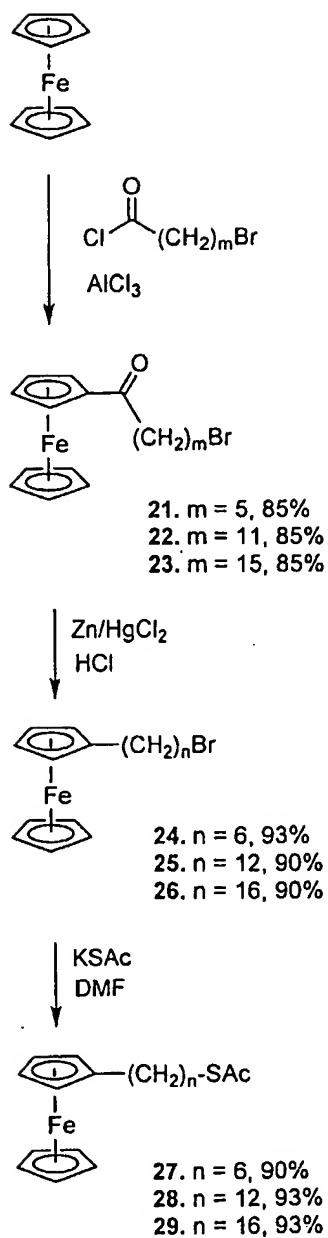


Fig. 54

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Scheme 8

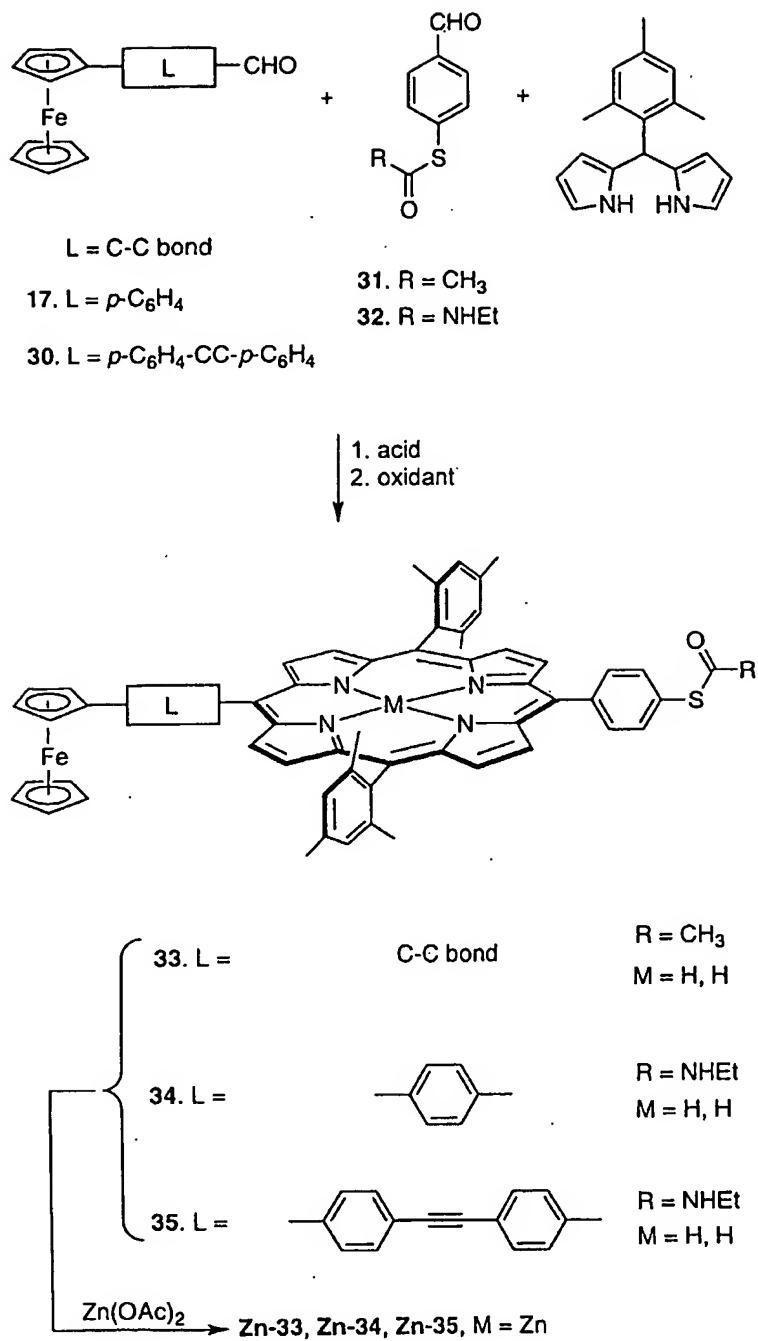


Fig. 55